

RG 104, 8KRA-104-84-051
Box 2

Miscellaneous Correspondence
Relating Primarily to Building
Construction Alterations & Inspections,
1935-1937.

Right To Left

1-	5000	Meg.	chms
2-	350	"	"
3-	5000	"	"
4-	500	"	"
5-	900	"	"
6-	5000	"	"

NIGHT LETTER

May 25, 1936.

General Expenses

Construction Engineer Owens,
United States Mint,
Denver, Colo.

Benjamin Electric Company wire you insisting bus structure switchboard Denver Mint be rebuilt but that board accordance approved shop drawings is in service and functioning satisfactorily and they request acceptance stop You advised if sizes bus bars are as noted on shop drawing C W eight hundred one approved January eleventh installation satisfactory provided clearances between bus bars and ground are accordance specification paragraph twelve fifty one

Supervising Engineer

CONFIRMATION

CC:DE

WEB:sb

NIGHT LETTER

May 25, 1936.

General Expenses

Benjamin Electric Manufacturing Co.,
Des Plaines,
Illinois.

Yours twentyfirst reference switchboard Denver Mint matter being taken up with Construction Engineer at the work stop You requested refer all questions arising to general contractors lieu directly here because this office deals only with them and not with subcontractors

Supervising Engineer.

CONFIRMATION

CC:CE
CC:DE

4EB:ab

RADIOGRAM

WASHINGTON, D. C.
MAY 25, 1936 - 3:55 PM

CONSTRUCTION ENGINEER OWENS
UNITED STATES MINT
DENVER, COLORADO

BENJAMIN ELECTRIC COMPANY WIRES, YOU INSISTING BUS STRUCTURE SWITCH
BOARD DENVER MINT BE REBUILT, BUT THAT BOARD ACCORDANCE APPROVED SHOP DRAWING
IS IN SERVICE AND FUNCTIONING SATISFACTORILY AND THEY REQUEST ACCEPTANCE.
YOU ADVISE IF SIZES BUS BARS ARE AS NOTED ON SHOP DRAWINGS No. CW 801 APPROVED
JANUARY 11, INSTALLATION SATISFACTORY PROVIDED CLEARANCES BETWEEN BUS BARS
AND GROUND ARE ACCORDANCE SPECIFICATIONS PARAGRAPH 1251.

MELICK.

RECEIVED
MAY 26, 1936
8:55 A.M.

Signal Corps, United States Army

Received at

RADIO STATION WTS
FT. LOGAN, COLO.

c3-9501 U. S. GOVERNMENT PRINTING OFFICE: 1928

39WVB B 68TRSY 1EX NITE

19

WASHN DC 355P MAY 25 1936

CONTN ENGR OWENS MINT

DENVER COLO

BENJAMIN ELECTRIC CO WIRE YOU INSISTING BUS STRUCTURE SWITCHBOARD
DENVER MINT BE REBIULT BUT THAT BOARD ACCORDANCE APPROVED SHOP
DRAWINGS IS IN SERVICE AND FUNCTIONING SATISFACTORILY AND THEY
REQUEST ACCEPTANCE STOP YOU ADVISED IF SIZES BUS BARS ARE AS NOTED
ON SHOP DRAWING C W EIGHT HUNDRED ONE APPROVED JANY ELEVENTH INSALLATION
SATISFACTORY PROVIDED CLEARANCES BETWEEN BUS BARS AND GROUND ARE
ACCORDANCE SPECIFICATION PARA TWELVE FIFTY ONE

MELICK

546P

PHONED 851 A MAY 25 BY FH/

INCL. #24720.

May 19, 1936.

SE-6-R

F. J. Kirchhof Construction Company,
700 Lawrence Street,
Denver, Colorado.

Gentlemen:

There is inclosed a copy of a letter dated May 7 from the Benjamin Electric Manufacturing Company, one of your subcontractors, on the above captioned project, regarding approval of the main distribution switchboard.

You are advised that office telegram of May 1 to the Construction Engineer furnished him with data for his use in determining whether switchboard delivered is in accordance with contract requirements. It will therefore be necessary for the subcontractor to ascertain from the Construction Engineer through you if the switchboard is acceptable.

By direction of the Supervising Engineer.

Very truly yours,

Superintendent of Project Management.

CC:CE
CC:DE

MAR:mc

Denver, Colo. May 27, 1936.

F. J. Kirchof Construction Co.,
700 Lawrence St.,
Denver, Colo.

Gentlemen:-

This is to call your attention to Paragraph # 1251 of the Specifications, pertaining to the Bus System of the New Switch Board as provided under your contract for the Extension & Remodeling of the U. S. Mint, Denver, and to a condition now existing on the new board as assembled by your sub-contractors and released for Government use on April 11th, 1936.

The above mentioned paragraph provides that connections to copper bar busses are to be made with bus bar clamps, the bus and connecting laminations being interleaves so as to secure maximum contact area.

It has been determined that all connections on, or to bars carrying 225 amperes or more load shall be clamped.

Paragraph 1251 - provides further, that, "Spacing between busses of the same kind, laminations, etc., must be equal and uniform".

That, "the minimum distance between live parts of opposite polarity of busses must be 2 inches and to the ground $1\frac{1}{2}$ inches; except one half of the above spacing will be permitted if necessary in connecting to apparatus."

The Bus System as now assembled on the New Board and in use has not the minimum clearance of 2 inches between live parts of opposite polarity and $1\frac{1}{2}$ " to the ground when the bus clamps, as specified, are applied on bar connections.

In fact, in certain places, due to laminations, and clamp take up, the clearance between live parts has been reduced to only $\frac{3}{4}$ of an inch when clamps were applied.

In order to provide and maintain power to the new Rolling Room equipment clamps were applied on all the bus bar connections, as assembled by your sub-contractor, and such connections not having sufficient clearance were insulated to protect system temporarily until the proper clearance could be obtained.

Since the spacing of the bus system is not in accordance with contract requirements and the equipment in use, being subjected to the possible dangers of electric storms and over loads, you are hereby requested to have the bus system respaced and arranged in accordance with specification requirements, bearing in mind that all busses, their component laminations, connections, etc., are

#2. F. J. Kirchof Construction Co.

to be run parallel to each other and to the Board, or at right angles thereto. No oblique runs except of a minor nature will be permitted. Further, that, the formal approval of the Board diagram was for general arrangements only, and not for dimentions as has been contended.

To correct the spacing necessary between the bars you are reminded that the system is in use 8 hrs. per day, 5½ days per week and that any work or adjustments to the Board or Distributing System will have to be performed between the regular working periods of the United States Mint force.

Yours very truly,

JAMES D. OWENS,
Construction Engineer.

DENVER, COLO., MINT

C. E. Owens
Bldg

Treasury Department,
OFFICE SUPERVISING ARCHITECT.

May 11, 1936.

Referred to the

SA-ME

for his guidance and files.

F. J. Kirchhof Construction Company,
700 Lawrence Street,
Denver, Colorado.

Gentlemen:

Referring to your contract for extending and remodeling the Mint, Denver, Colorado, this office is in receipt of a letter from the Benjamin Electric Manufacturing Company, Des Plaines, Illinois, requesting to be advised what is meant by nichrome plated metal specified for this project.

As it is contrary to office practice to recognize subcontractors, please advise the above company that the steel trim and door for this building are specified to be electroplated with either nickel or copper, with a second electroplating of chromium. This finish was requested by the Superintendent of the Mint. Kindly advise the Benjamin Electric Manufacturing Company in the future to take up all matters in regard to this contract through your office.

Copies of this letter will be sent the construction engineer and the district engineer. A copy also will be sent your Washington office.

By direction of the Supervising Engineer, to whom any further correspondence on this subject should be addressed.

Very truly yours,

Acting Superintendent,
Mechanical Engineering Section.

MH:HH

R A D I O G R A M

WASHINGTON, D. C.

MAY 1, 1936 - 4:27 P.M.

CONSTRUCTION ENGINEER OWENS
UNITED STATES MINT
DENVER, COLORADO

YOURS APRIL 28TH DENVER MINT. ALL CONNECTIONS ABOVE 225 AMPERES
TO BE BRUSH BARS CLAMPS. BRUSH BARS OF OPPOSITE POLARITY TO HAVE TWO INCH
clearance
MINIMUM CLAMPS INCLUDING CLAMPS EQUIPMENT MEETING REQUIREMENTS NATIONAL
clearance
BOARD FIRE UNDERWRITERS AND NEA. HAVE SUFFICIENT CLAMPS BETWEEN LIVE
PARTS.

BRANSCOMBE

RECEIVED
MAY 2, 1936
9:05 A.M.

R A D I O G R A M

April 28, 1936.

Supervising Engineer,
Procurement Division,
Public Works Branch,
Washington, D. C.

Reference to new switch board Denver Mint and Bus Bar System - paragraph twelve fifty one Stop. Name minimum size bar connections that will require bus bar clamps Stop. All busses installed with minimum clearance of two inches between live parts of opposite polarity not including clamps Stop. What shall be minimum clearance of Bus Bars on eight to sixteen hundred ampere breaker posts, three-phase, A-C current, also the clearance of Bus Bar Clamps on live parts of opposite polarity and to ground. Wire answer at once.

James D. Owens

Construction Engineer.

O. E. Owens Mechanical List

SA-ME

December 17, 1935.

F. J. Kirchhof Construction Company,
7th and Lawrence Streets,
Denver, Colorado.

Gentlemen:

Referring to your contract for extending and remodeling the Mint, Denver, Colorado, you are advised of the approval, subject to contract requirements, of the following materials and appliances, named in your letter of December 4 and 5, for use in the mechanical equipment work:

✓ PLUMBING FIXTURES: Crane Company.

✓ ELECTRIC WATER COOLERS AND DRINKING FOUNTAINS:
Crane Company, C-2955.

✓ NONCONDUCTING COVERING FOR PLUMBING: Johns-
Manville Company.

✓ TUBE RADIATORS: Crane Company, at ratings given in enclosed schedule which must be followed, in lieu of the manufacturer's ratings. Attention is called to the fact that the roughing-in for these radiators will be different than for radiators of manufacturer's ratings.

✓ NONCONDUCTING COVERING FOR HEATING: Johns-
Manville Company.

✓ ANGLE RADIATOR VALVES: Hoffman Specialty
Company, #430.

✓ OFFSET RADIATOR VALVES: Hoffman Specialty
Company, #470.

✓ PRESSURE REDUCING VALVE ON WATER SUPPLY: McAlister Manufacturing Company, #227 (number selected as that named by you does not meet the specifications).

✓ MECHANICAL TRAPS: Crane Company, #981, for high pressure traps.

✓ THERMOSTATIC THERMS: Hoffman Specialty Company, #8-A (number selected as that which you name is obsolete).

✓ VACUUM PUMP: Chicago Pump Company, "Condo-vac", subject to submission of certified test sheets of the actual pumps to be installed in accordance with paragraph 1161. The pumps are not to be shipped until approval has been given the test sheets.

✓ ELECTRIC CONTROLLERS FOR FAN MOTORS: Westinghouse Electric and Manufacturing Company.

✓ MOTORS FOR FANS: Westinghouse Electric and Manufacturing Company.

✓ BRASS PIPE: American Brass Company, Grade A.

WATT HOUR METER: Sangamo Electric Company, #D-5 (shown on switchboard drawing), subject to acceptance of deduction proposal.

✓ MAIN SWITCHBOARD: Benjamin Electric Manufacturing Company. Please submit three additional copies of detail drawing.

✓ THERMAL CIRCUIT BREAKERS: Westinghouse Electric and Manufacturing Company. ✓

✓ SAFETY SWITCHES FOR MOTORS: Square D Electric Company, #84253, #84343, and #88351.

✓ VAULT MAT CABLE: Paranite wire and Cable Corporation, subject to check against specification requirements by Construction Engineer before installation.

✓ RUBBER COVERED WIRE: Hazard Insulated Wire Works, superaging grade meeting Federal Specification #JC-106.

✓ FLUSH SWITCHES: Arrow, Hart and Hegeman Electric Company, #4261 and #4271.

✓ GLASSWARE: Moe-Bridges Corporation:

✓ G-12 #7612

G-16 #7616

✓ LIGHTING FIXTURES: Moe-Bridges Corporation,
with the understanding that fixtures furnished
will be in strict accordance with the contract
requirements. In this connection special
attention is called to thickness of metal,
etc., specified.

Please advise the office when the lighting fixtures are
ready for the shop inspection referred to in paragraph 1283,
page 157 of the specifications.

Sims Company's water heater and tank are rejected as
the thickness of shell and of head of tank is not equal to
the specified for a 42" diameter tank. Please state make
which meets the requirements. At the same time, submit
manufacturer of mechanical trap (combination) as Hoffman
Specialty Company's #23-T offered by you is rejected be-
cause of insufficient capacity. Also forward catalog
numbers for fans manufactured by American Blower Company
which you propose to use.

Formal approval of make of the other items named by
you is not required, but material furnished must meet the
specifications.

It is noted that you have not submitted for approval
make of the following items:

Magnetic contactors for motor operated doors.

Counterbalanced freight elevator doors.

Thermal breakers for panels.

Before consideration is given to the following,
please furnish the information requested:

Lighting distribution panel--Benjamin Electric Manu-
facturing Company--catalog.

Main circuit breaker--Roller Smith Company, catalog.
showing complete details.

Copies of this letter, with approved radiator ratings,
will be sent the District Engineer and the Construction
Engineer.

By direction of the Supervising Engineer to whom your
reply should be addressed.

Respectfully,

Superintendent,
Mechanical Engineering Section.

Electrical-

Denver, Colo. U.S. Mint Addition,

Owens,
U.S. Mint, Denver,

Denver, Colo.
April 11 th- 1936

Mr. W.N. Collier,
District Engineer,
526 New Post Office,
Kansas City, Mo.,

Sir:

With reference to the Extention and
Remodeling of the U.S. Mint, Denver, Colo.

In order to construct the New 4 story
Vault No. 1 in the old part of the building, it
becomes necessary to transfer the Mint Activities that
have been carried on in what is known as the Rolling Room
located directly over vault in the old building to the
1st floor of the New Extention as provided under the
plans and specifications.

For the Mint force to carry on their work in
the new location, Electric Power with distribution from
the New Switch Board is necessary until final acceptance
of contractor's work.

While the contract provides for maintaining
direct current to the old switch board with distirbution,
it does not require use and distribution of the new
system.

Contractor is willing to grant use of New Board
and wiring system until finnally accepted.

Due to the design and feeder layout it becomes
highly advantages to the Mint force to have power over
the new board and D.C. Service.

But before this portion of the work is taken over,
I feel the New Board and System should have a Provisional
Inspection and Test by a Mechanical Engineer before being
used by the Government.

The specifications does not provide for any form
of Provisional Insp. or operating conditions of this part of
contractor's work, so this matter is being refered to you
for your advice and further instructions; and with a request

Page 2- April 11 th- 36-
Electril- J.D. Owens to District Eng. Collier.

that should you deem it necessary to make an inspection, arrange to have an Engineer here not later than Thurs. April 17 th-36 as the Mint force wants to begin rolling in the new location.

Please advise me by wire not later than Wed. 16 th- what should be done about the mater or course to follow.

Yours very truly,

James D. Owens,

Construction Engineer,



OFFICE OF
DISTRICT ENGINEER
6TH DISTRICT

TREASURY DEPARTMENT

PROCUREMENT DIVISION

PUBLIC WORKS BRANCH

FIELD FORCE

KANSAS CITY, MO.

April 13, 1936

Construction Engineer,
Mint,
Denver,
Colorado.

Sir:

1. Receipt is acknowledged of your letter of the 11th instant requesting that an inspection be made of the new switch board at the Denver, Colorado, Mint prior to its acceptance and use since occupancy of certain portions of the extension will take place soon which will make it necessary to use current through the new switch board.

2. At the present time there is no Mechanical Engineer available to make the inspection you request. You are directed, however, to make a thorough inspection of the work in question and secure from the contractor his written consent for the use of the equipment prior to acceptance.

Very truly yours,

K. L. Hullerick
Acting District Engineer

KLH:FB

F. J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314

April 23, 1936

Procurement Division
Public Works Branch
Treasury Department
Mr. James D. Owens, Constr. Engineer
U.S. Mint Addition
Denver, Colo.

RE: U.S. MINT

Dear Sir:

We hereby agree to allow the Mint force to use the new switchboard and distribution system for the operation of rolling equipment on the first floor of the new extension to the above building.

It is understood that we will be relieved of any responsibility for damage caused by the occupancy in the way of accident or ordinary wear and tear.

It is understood that a careful check of the switchboard, all equipment and feeders is to be made by the Construction Engineer, Mr. White, Machinery Superintendent of the Mint force, and Mr. Hopkins, of the Rocky Mountain Electric Company, electrical sub-contractors on this building.

Yours very truly,

F. J. KIRCHHOF CONSTRUCTION CO.

By

G. B. Falsom Jr.

GBF:M

C.D. Bell
Ma 8/13

CATALOG No. 5

October, 1934
(Superseding Cat. No. 5
dated April, 1932.)

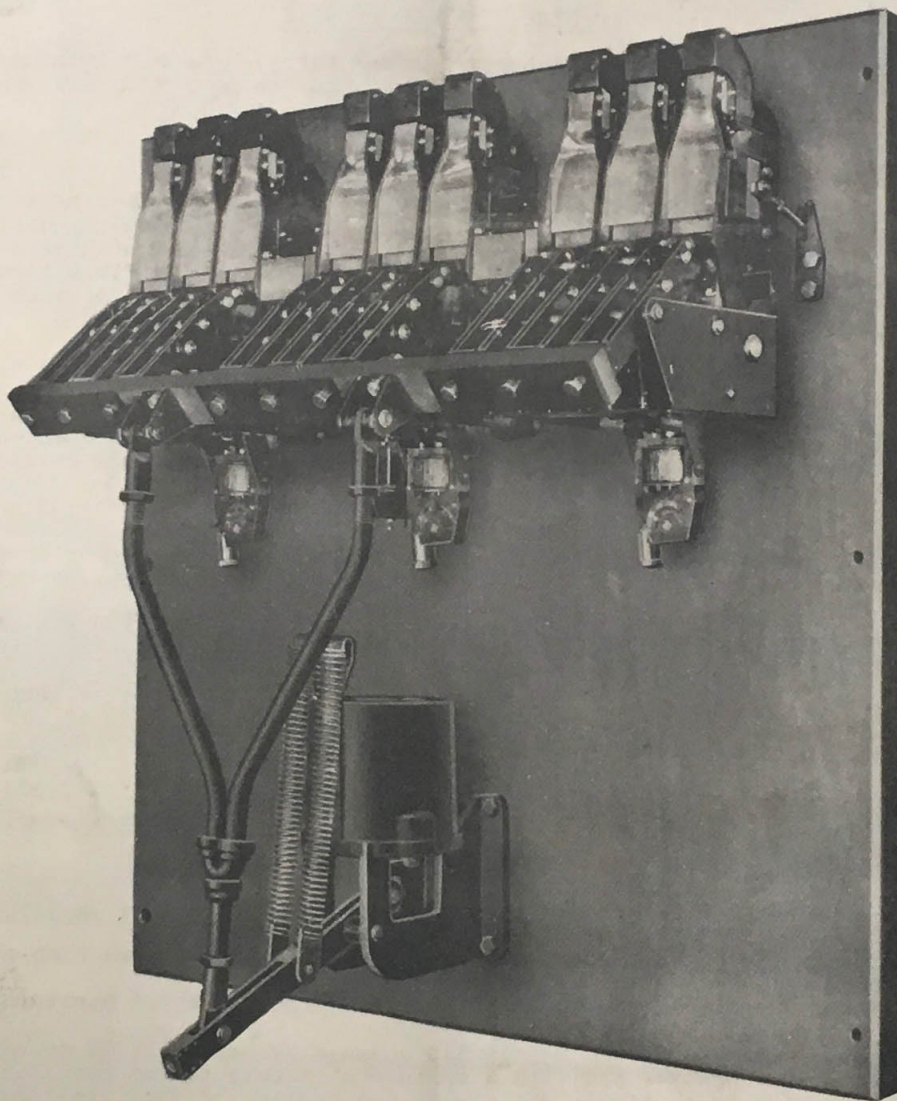


AIR CIRCUIT BREAKERS

Type HD (Heavy Duty)

5 to 10,000 Amperes; 750 Volts A. C.; 600 Volts D. C.

Live Front; Dead Front; Steel Enclosed



4000 Ampere, 3 Pole, Electrically Operated Type H D Circuit Breaker.

ROLLER-SMITH COMPANY
Electrical Measuring and Protective Apparatus

MAIN OFFICE

233 Broadway, NEW YORK



WORKS

Bethlehem, Pennsylvania

Sales Agencies in Principal Cities in United States and Canada

ROLLER-SMITH TYPE HD (HEAVY DUTY) AIR CIRCUIT BREAKERS

GENERAL

The Roller-Smith Company has been making air circuit breakers for over thirty years. Many tens of thousands of Roller-Smith breakers are giving satisfactory service in all parts of the country and abroad, under very exacting operating conditions and in practically all kinds of industries. While many changes and improvements have been made during that period of time certain fundamentals of design have been retained and are incorporated in the new Type HD (Heavy Duty) Circuit Breaker that Roller-Smith now introduces.

"ONE CONTACT PER POLE"

One fundamental is the principle of "one contact per pole". This means that the heavy laminated brush is stationary, being mounted on the panel, and the moving arm makes contact with the laminated brush, thus completing the circuit. This is in contrast to other constructions where the heavy brush is mounted on the moving arm and spans two stationary contacts mounted on the panel. In the "one contact per pole" principle, as used by Roller-Smith, there is literally only one contact per pole instead of two. This reduces resistance and heating losses to a minimum.

HIGH SPEED OF OPENING

This construction also removes the heavy current carrying member from the moving arm so that the moving arm is comparatively light in weight and can move with the very high speed that always has been characteristic of Roller-Smith breakers.

INVERTED CONTACTS

Roller-Smith breakers always have had very high interrupting capacities because of their "one contact per pole", high speed of opening, simple construction and magnetic blow-out action. In the new Type HD Breakers these features are retained and the use of inverted brushes and secondary and carbon contacts is introduced in air breakers for the first time, although Roller-Smith oil breakers have utilized this principle since their introduction some years ago. The inverted brush principle is shown and described in detail on pages 3 and 4.

STATIONARY LATCH

The latch on the new Type HD Breaker is stationary (see details on pages 3 and 4) which is a most important feature in that it enables the breaker to withstand mechanical shocks, such as the concussion of heavy gun fire, to a degree heretofore unknown in air breaker performance.

HIGH INTERRUPTING CAPACITY

Roller-Smith Type HD Breakers are -by actual field tests- capable of interrupting circuits of enormous magnitude as the following tabulation of interrupting capacity ratings will show:-

<u>AMPERES</u>	<u>VOLTS</u>	<u>INTERRUPTING CAPACITY IN AMPERES</u>
0-400	600	40,000
401-1200	600	60,000
1201-2000	600	80,000
2001-5000	600	100,000
5001 and over	600	120,000

TECHNICAL DETAILS

The new Type HD Breaker is offered with the assurance, backed by 30 years experience, that:

1. It will carry its rated current continuously with a temperature rise of not over 20 degrees C. on the contacts.
2. It will open the circuit in which it is located with a speed heretofore unknown in air breaker design.
3. It will open circuits of the magnitudes shown above and will do so repeatedly with a minimum of damage to the breaker and with a maximum of safety to the operator.
4. Its construction is so simple and sturdy and fool-proof that its life is indefinite and the cost of maintenance is practically nothing.
5. It is a really good breaker made by a responsible concern with an experience of over thirty years in the business. It will give continuously good service under the most severe conditions. In other words, a discriminating Engineer will relieve himself of worries by specifying Roller-Smith Type HD (Heavy Duty) Air Breakers.

INVERTED BRUSH, SECONDARY AND CARBON CONTACTS AND HIGH SPEED OPENING RESULT IN HIGH INTERRUPTING CAPACITY.

- (A) BECAUSE OF THE ELECTRO-MAGNETIC BLOW-OUT ACTION OF THE OVERLOAD COIL AND THE SHAPE OF THE CIRCUIT PARTS.
- (B) BECAUSE OF THE "LOOP" EFFECT OF THE MAGNETIC CIRCUIT. THE STATIONARY BRUSH (1), SECONDARY (2) AND CARBON (3) STATIONARY CONTACTS INCREASE THEIR PRESSURE AGAINST THE CORRESPONDING MOVABLE PARTS (4, 5 AND 6) AS THE CURRENT INCREASES. THIS GIVES MAXIMUM CONTACT PRESSURE WHEN IT IS MOST NEEDED AND INSURES AGAINST CONTACTS BLOWING APART ON ANY SHORT CIRCUIT. SINCE THE SECONDARY CONTACTS (2) AND (5) DO NOT OPEN UNTIL THE MAIN CONTACTS (1) AND (4) ARE OPEN AND THE CARBON CONTACTS (3) AND (6) DO NOT OPEN UNTIL THE SECONDARY CONTACTS ARE OPEN, THE FINAL ARC TAKES PLACE ON THE CARBONS, THUS PROTECTING THE MAIN AND SECONDARY CONTACTS.
- (C) BECAUSE OF THE TREMENDOUS SPEED OF OPENING DUE TO THE FACT THAT THE MOVING ARM DOES NOT CARRY THE HEAVY BRUSH. THE BRUSH IS STATIONARY AND COMPLETES THE CIRCUIT THROUGH THE ARM. "ONE CONTACT PER POLE."
- (D) TYPE HD BREAKERS WILL INTERRUPT CURRENTS OF SHORT CIRCUIT MAGNITUDE WITH LESS HEATING AND LESS BURNING THAN HERETOFORE HAS BEEN THOUGHT POSSIBLE.

ROLLER-SMITH TYPE HD (HEAVY DUTY) CIRCUIT BREAKER

BREAKER HELD CLOSED BY OVER-CENTRE TOGGLE.

TRIP FROM HANDLE OR BY TRIP BUTTON.

TRIP FREE AT ALL POINTS OF THE CLOSING STROKE.

STRAIGHT HANDLE SINGLE POLE BREAKERS. SPADE HANDLE MULTI-POLE BREAKERS. EASY TO CLOSE WITH SIMPLE AND STRONG MECHANISM.

RETAINING RINGS, NO COTTER PINS.

ADJUSTABLE OVER-CENTRE STOP.

EXTRA TOGGLE REDUCES LATCH LOAD, REDUCES TRIP COIL TURNS AND REDUCES HEATING.

STATIONARY LATCH MADE OF SPECIAL STEEL. ALWAYS IN TRIPPING POSITION. DOES NOT JAR OFF WITH RAPID CLOSURE, EXCESSIVE VIBRATING OR SHOCK. ACCURATELY HARDENED. WILL NOT WARP OR RUST.

CONTACT PRESSURE ADJUSTABLE WITHOUT OPENING BREAKER.

FRICTION SHOCK ABSORBERS.

MULTI-POLE BREAKERS OPEN AND CLOSE IN UNISON.

FREE PRELIMINARY MOVEMENT BEFORE TRIPPING MECHANISM ENGAGES.

CALIBRATION WEIGHT. SEE PAGE FOR COMPLETE DETAILS.

TIME DELAY ATTACHMENT. ADJUSTABLE INDEPENDENTLY OF OVERLOAD CALIBRATION. AFFORDS NECESSARY TIME DELAY FOR OVERLOADS. OPERATES INSTANTANEOUSLY ON SHORTS.

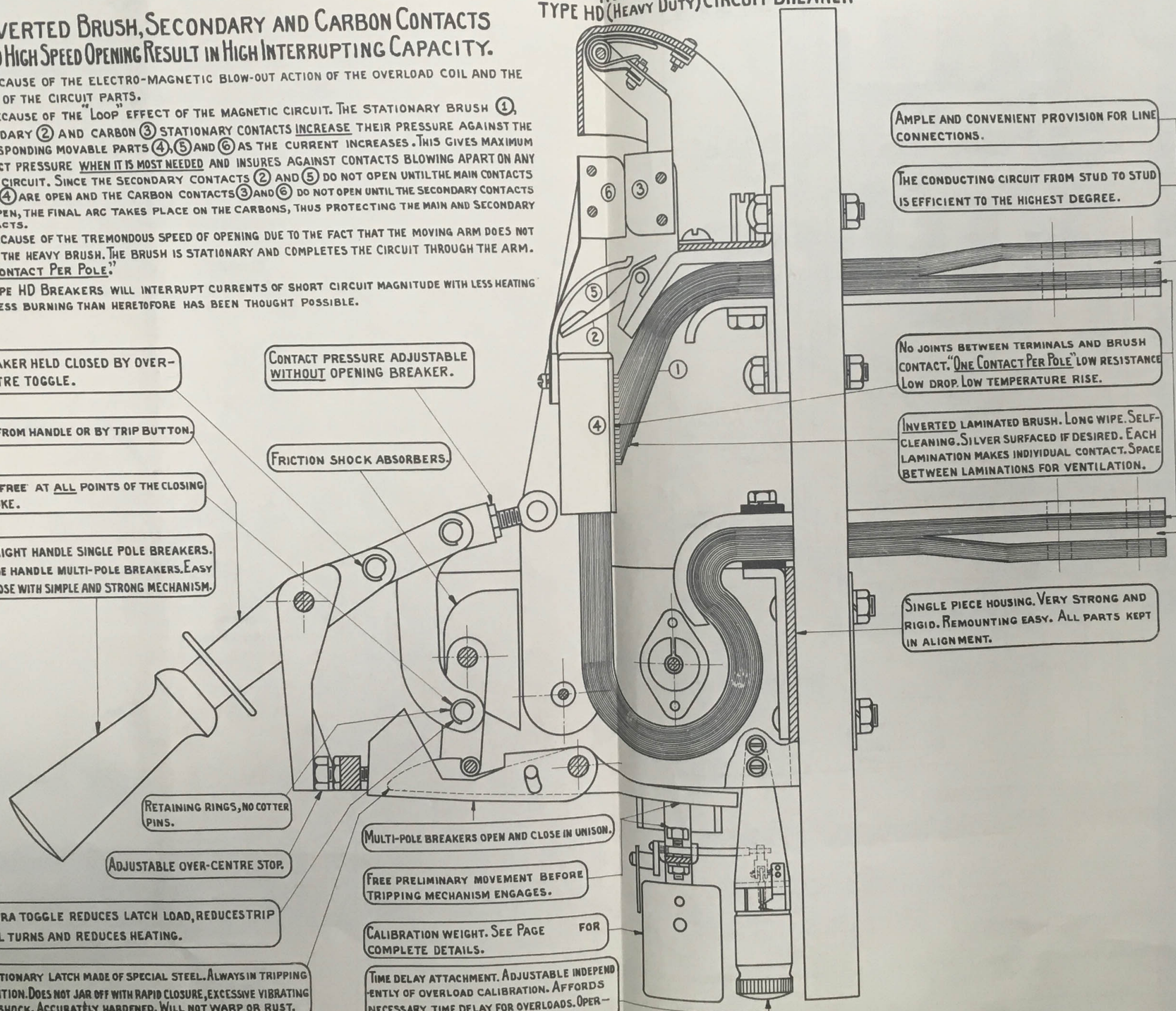
AMPLE AND CONVENIENT PROVISION FOR LINE CONNECTIONS.

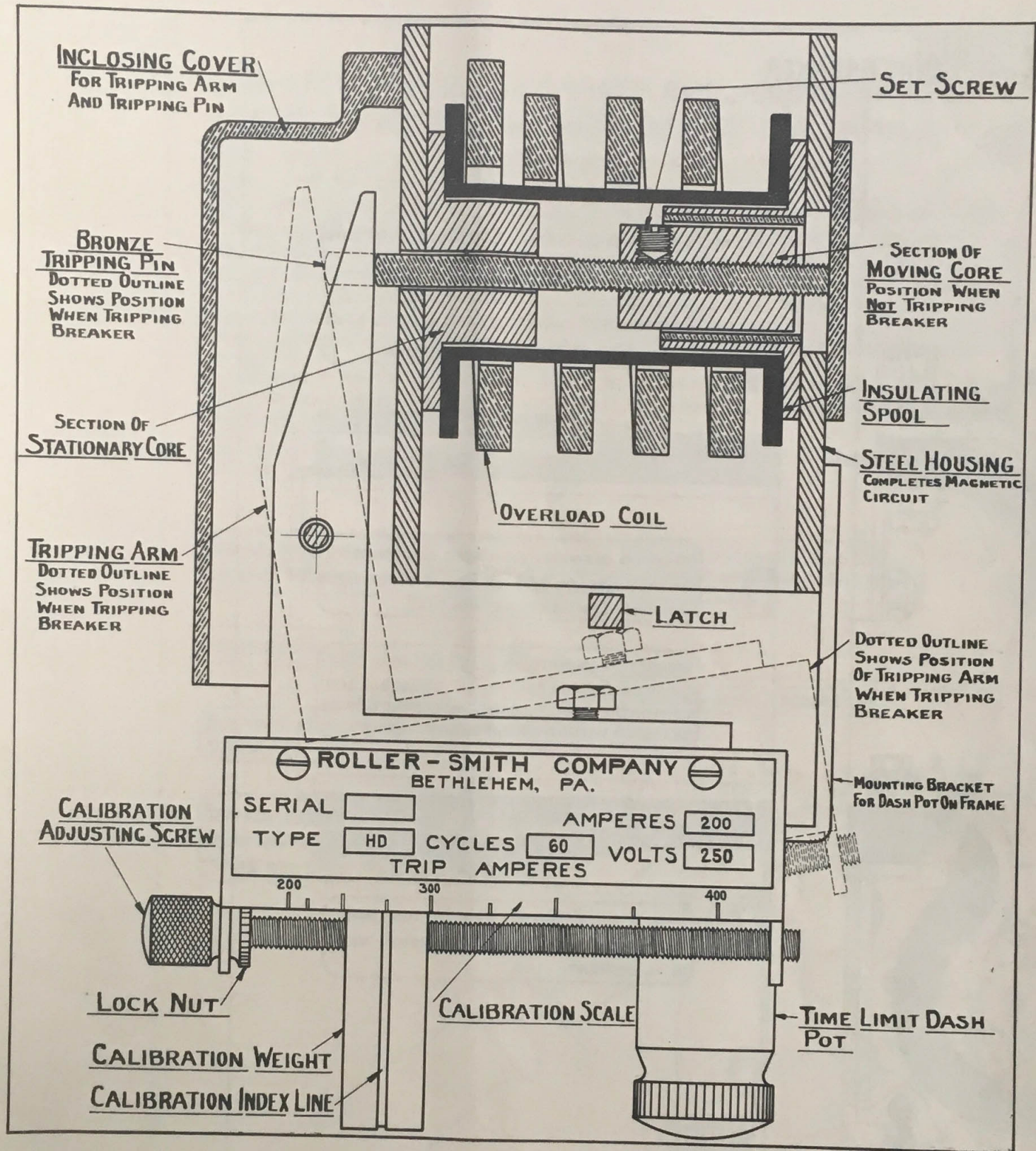
THE CONDUCTING CIRCUIT FROM STUD TO STUD IS EFFICIENT TO THE HIGHEST DEGREE.

NO JOINTS BETWEEN TERMINALS AND BRUSH CONTACT. "ONE CONTACT PER POLE" LOW RESISTANCE LOW DROP. LOW TEMPERATURE RISE.

INVERTED LAMINATED BRUSH. LONG WIPE. SELF-CLEANING. SILVER SURFACED IF DESIRED. EACH LAMINATION MAKES INDIVIDUAL CONTACT. SPACE BETWEEN LAMINATIONS FOR VENTILATION.

SINGLE PIECE HOUSING. VERY STRONG AND RIGID. REMOUNTING EASY. ALL PARTS KEPT IN ALIGNMENT.





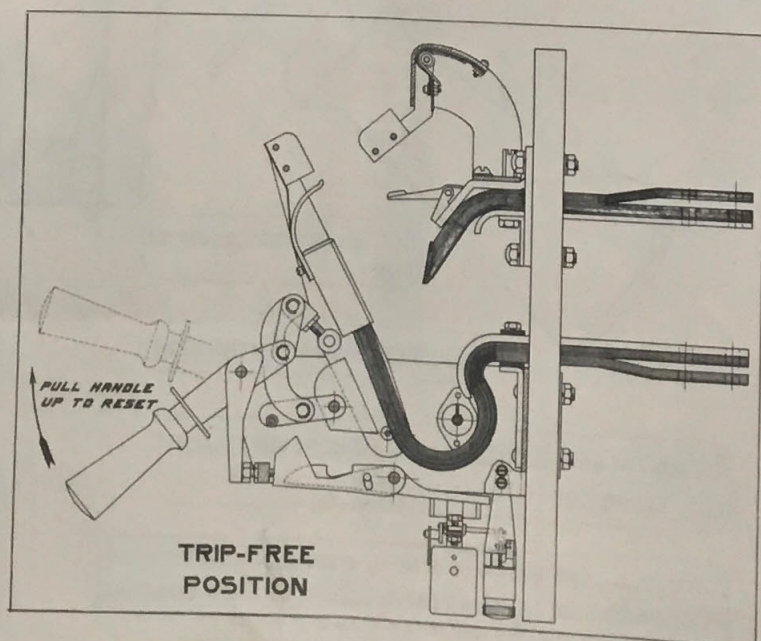
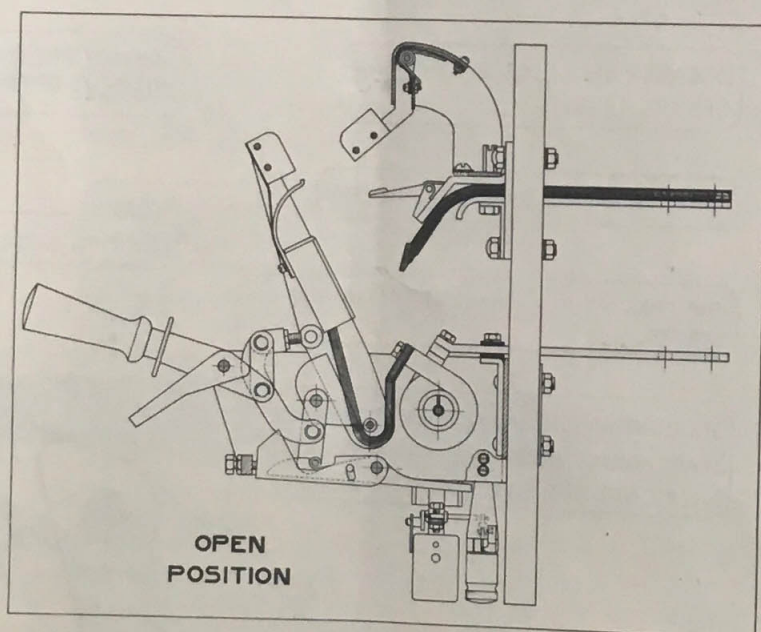
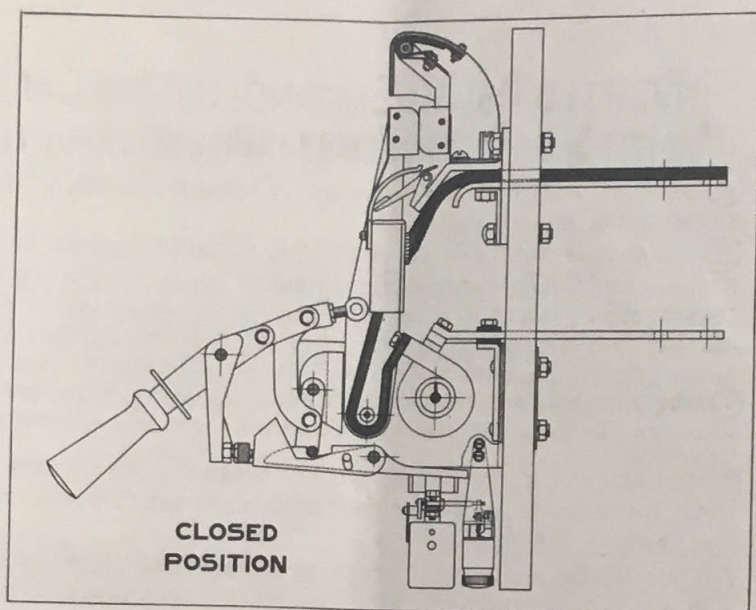
OVERLOAD AND TRIPPING DETAILS

The solid lines show the normal position of the tripping details. The calibration weight is set at 275 amperes and maintains a force to rotate the tripping frame in a clock-wise direction with the upper end against the tripping pin.

An overload will increase the strength of the overload coil and will increase the magnetic attraction of the stationary and moving cores. When this pull exceeds the force of the tripping arm on the tripping pin the moving core moves to the left. The tripping pin goes with it, rotating the tripping arm in a counter-clock wise direction to the position shown in dotted lines, thus tripping the breaker. The tripping arm is an assembly including the calibration weight and the plunger of the dash pot.

Moving the calibration weight along the scale changes its leverage and changes the tripping point.

The time limit is adjustable. Screwing the pot up increases and screwing it down decreases the time delay.



ROLLER-SMITH TYPE HD (HEAVY DUTY) AIR CIRCUIT BREAKERS

TECHNICAL DETAILS

On pages 3 and 4, we show a side view of a typical Type HD Breaker with the salient features clearly indicated. Following are some additional technical details:-

TEMPERATURE RISE. Type HD Breakers are rated at 20° C., that is the contacts of the breakers will not rise in temperature more than 20 degrees C. beyond the surrounding atmosphere under full load conditions.

SILVER FACED CONTACTS. When so ordered the main contacts, both movable and stationary, will be silver faced without extra charge.

NON-MAGNETIC STEEL. To avoid heating on alternating current all steel parts are made of non-magnetic alloy, where the use of such is proper.

CALIBRATION. The range of overload calibration is from full load to twice full load. For instance, a 1000 ampere breaker may be set to trip at any point between 1000 and 2000 amperes. It is important to emphasize here the fact that setting the overload tripping point beyond the normal rating does not increase the carrying capacity of the breaker. Good practice indicates that a breaker should never be operated for an appreciable time above its normal rating.

INTERRUPTING CAPACITY RATINGS. These are based on actual tests made in the field on a large interconnected system.

MULTIPOLE BREAKERS. All poles on multipole breakers open and close in unison.

TYPES OF HANDLES. All single pole breakers have straight handles and all multipole breakers have spade handles. Spade handles will be supplied on single pole breakers without extra charge, if so ordered.

PROVISION FOR ATTACHMENTS. All breakers are so designed that extra attachments such as undervoltage, shunt-trip, etc., may easily be added in the field.

CALIBRATION SCALE. This is quite long, easy to see and exact settings can be made.

OVERLOAD TRIP COILS. These are mounted inside housings but are easy to get at for repair or replacal purposes.

SPACE REQUIREMENTS. The design of the Type HD Breaker is such that minimum space is required, an important feature when laying out installations where space is at a premium.

COMPLIANCE WITH STANDARD SPECIFICATIONS. All Roller-Smith Air Breakers meet the specifications of the American Institute of Electrical Engineers and the National Electrical Manufacturers Association and are approved by the Underwriters Laboratories.

ROLLER-SMITH TYPE HD (HEAVY DUTY) AIR CIRCUIT BREAKERS

OPERATING ATTACHMENTS AVAILABLE

UNDervOLTAGE

- (a) Available for any voltage up to breaker ratings.
- (b) Automatically retrieved when breaker opens.
- (c) Standard mounting on outside of left-hand pole.
- (d) Small watt consumption.

SHUNT TRIP

- (a) Available for any voltage up to breaker ratings.
- (b) Standard mounting interchangeable with undervoltage.

AUXILIARY SWITCHES

- (a) Each unit may be circuit opening or circuit closing.
- (b) Several units may be used.

INTERLOCKS for double throw breakers.

REVERSE CURRENT secured by accurate Type SR relays and shunt trip coils - PLENTY of tripping power.

BARRIERS between poles are available for use on voltages above 250 volts.

ELECTRICALLY OPERATED BREAKERS

Available in all sizes for both D.C. and A.C. control.

Hand operated breakers with overload, time delay, latches and all attachments are suitable for solenoid operation without change.

D.C. solenoid operator is simply a solenoid with a reversing lever and retrieving spring - no complicated mechanism to get out of order.

Cores and coils are of liberal design - small closing currents.

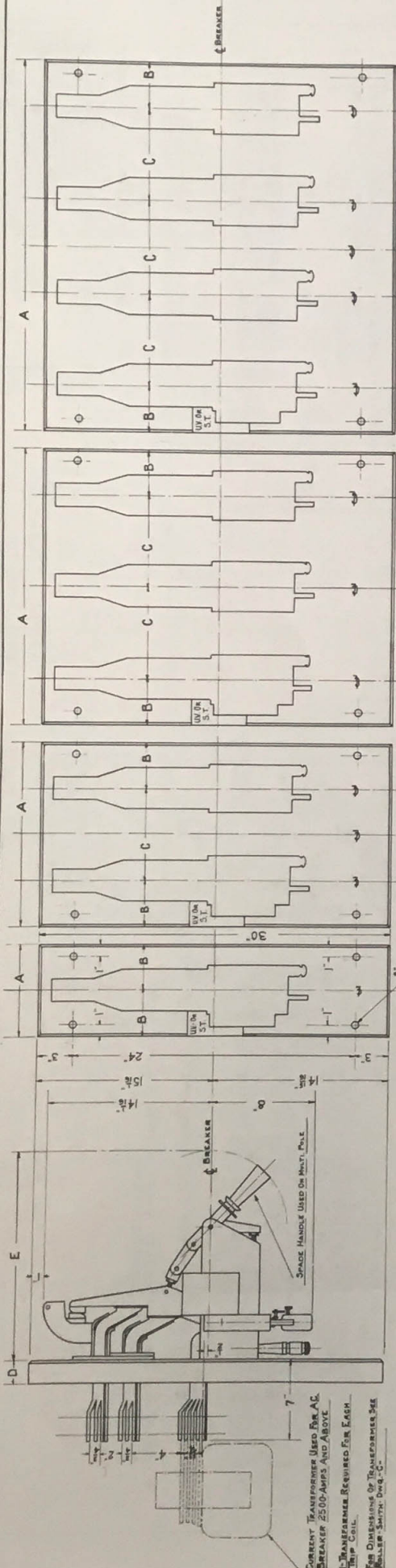
Strong mechanical design throughout.

For A.C. control the same magnets are used only with the addition of rectifiers.

A typical electrically operated breaker is illustrated on the Front Cover.

LISTINGS AND PRICES

For listings, prices, ordering data and other details, see current separate Price Sheet.



4-POLE

3-POLE

2-POLE

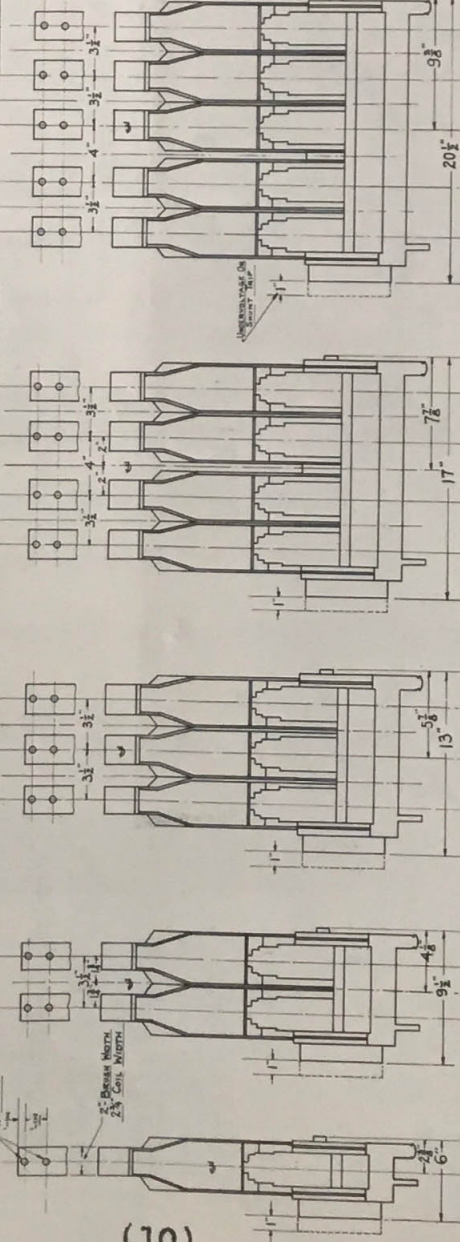
SINGLE POLE

8" DRILL-4 MTS. HOLES

3-UNIT-SINGLE POLE

2-UNIT-SINGLE POLE

SINGLE UNIT-SINGLE POLE



COPPER BUS BAR PER POLE (60-CYCLE)

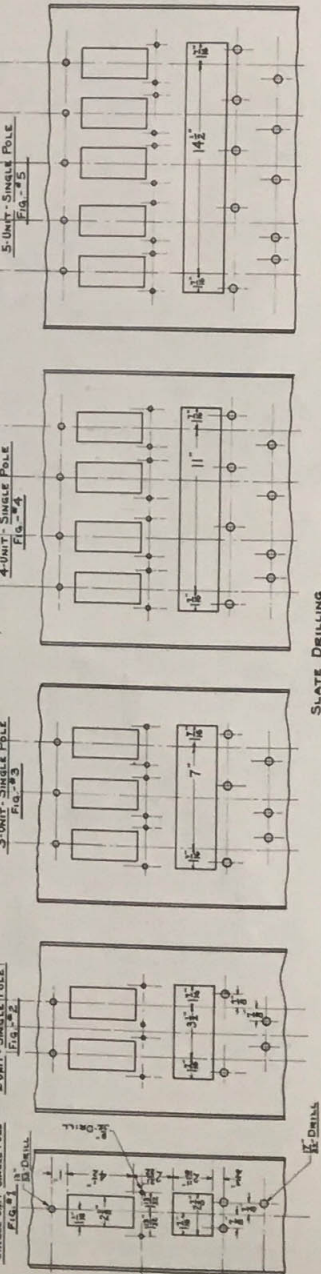
FIGURE NO.	NO. OF BUS BARS	CONC.
1	2" x 1/2"	2" x 1/2"
2	2" x 1/2"	2" x 1/2"
3	2" x 1/2"	2" x 1/2"
4	2" x 1/2"	2" x 1/2"
5	2" x 1/2"	2" x 1/2"

RECOMMENDED BUS BAR

FIGURE NO.	NO. OF BUS BARS	CONC.
1	2" x 1/2"	2" x 1/2"
2	2" x 1/2"	2" x 1/2"
3	2" x 1/2"	2" x 1/2"
4	2" x 1/2"	2" x 1/2"
5	2" x 1/2"	2" x 1/2"

SEE FIG. 7 UNIT ASSEMBLY (SEE FIG. 5 UNIT ASSEMBLY) SEE FIG. 4 UNIT ASSEMBLY (SEE FIG. 3 UNIT ASSEMBLY)

FIGURE NO.	NO. OF BUS BARS	CONC.
1	2" x 1/2"	2" x 1/2"
2	2" x 1/2"	2" x 1/2"
3	2" x 1/2"	2" x 1/2"
4	2" x 1/2"	2" x 1/2"
5	2" x 1/2"	2" x 1/2"

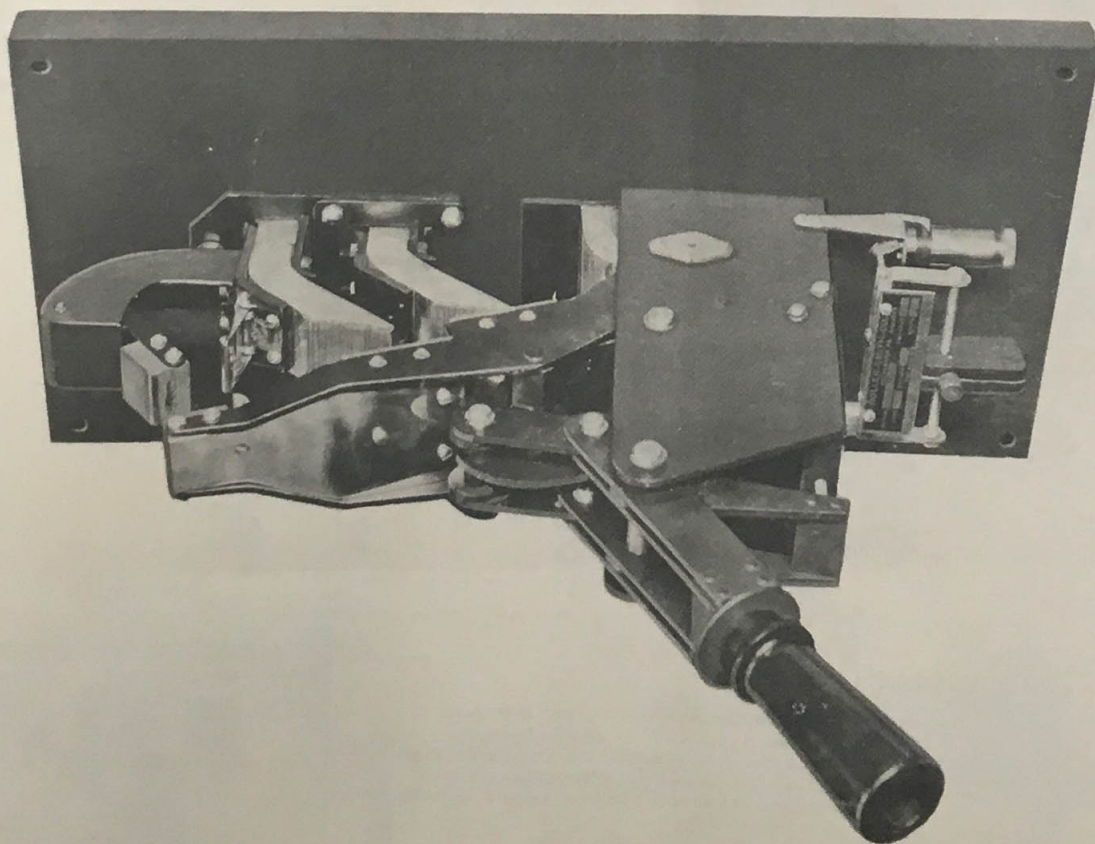


SLATE DRILLING

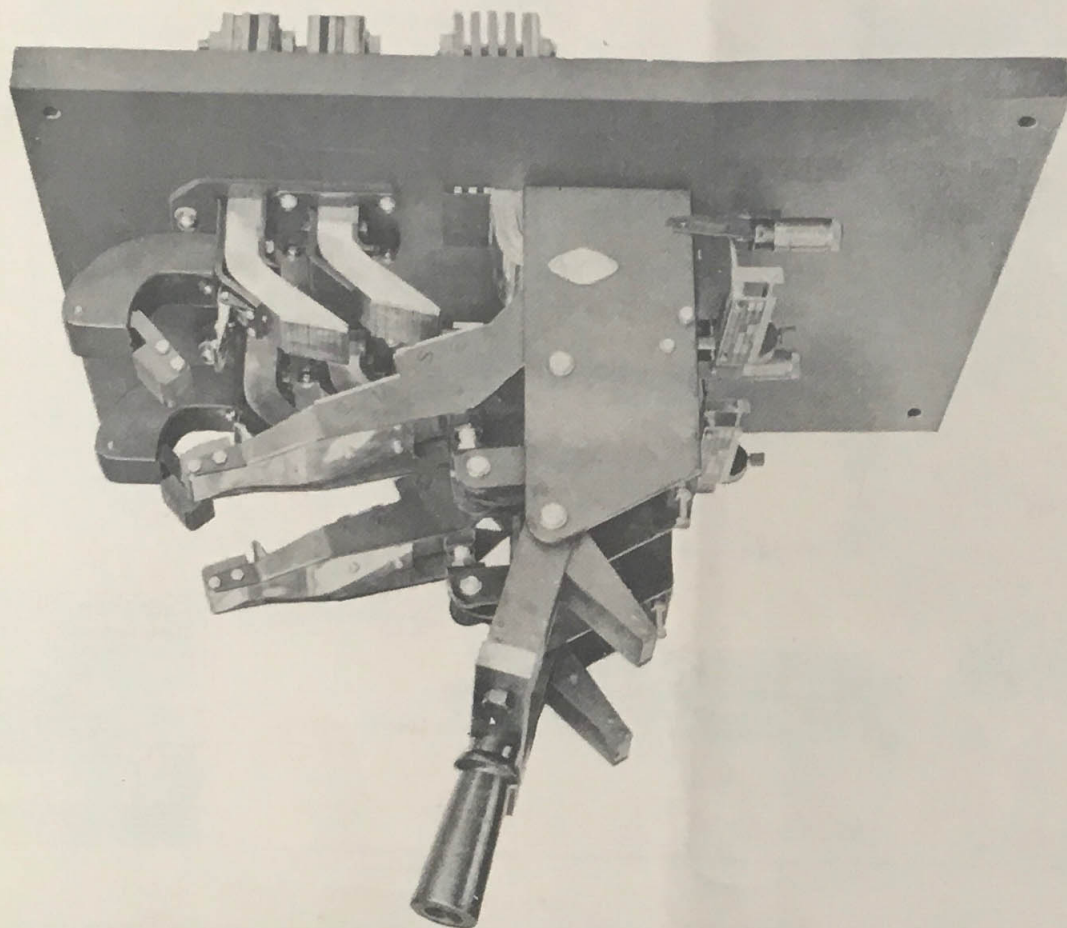
SOLENOID OPERATED BREAKERS HAVE SAME PANEL DIMENSIONS EXCEPT THE 30" PANEL HEIGHT IS INCREASED TO 45"

OVERALL 4" DRILLING DIMENSIONS FOR TYPE-HD-HAND OPERATED-TRIP FREE AIR CIRCUIT BREAKER 1600 TO 10000 AMPERES

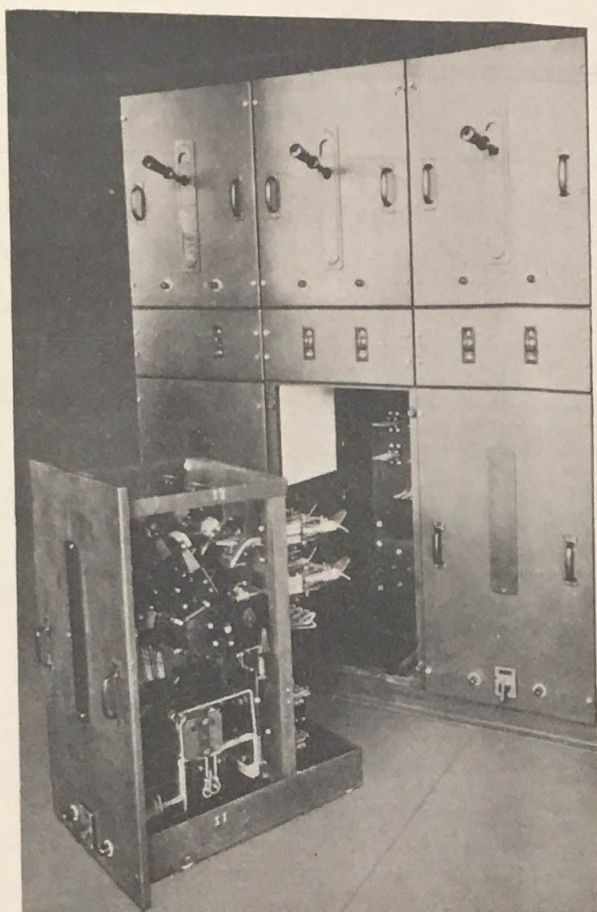
ROLLER-SMITH CO.
PHILADELPHIA, PA.
DRAWN G. J. G.
CHECKED G. J. G.
APPROVED G. J. G.
R-16378



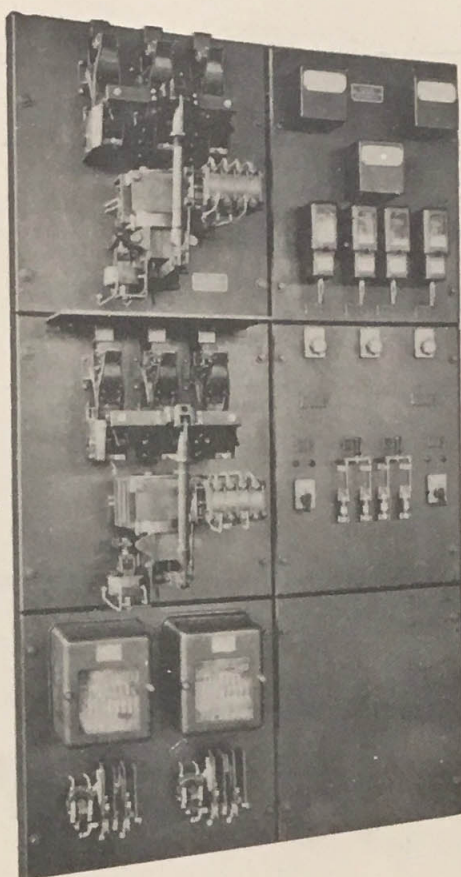
2500 AMPERE D. C., SINGLE POLE, HAND OPERATED
TYPE HD AIR CIRCUIT BREAKER



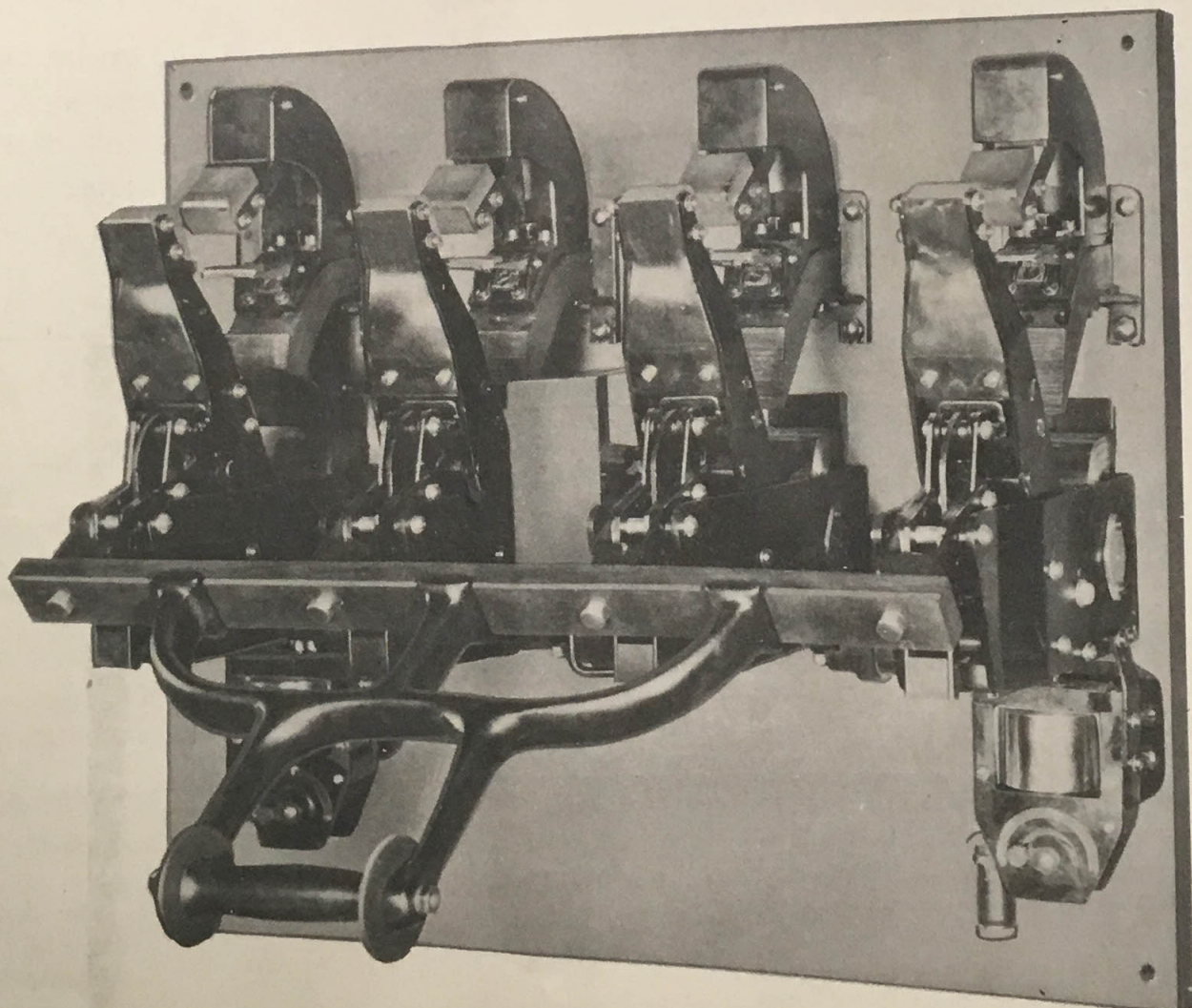
2000 AMPERE A. C., 2 POLE, HAND OPERATED, TYPE HD AIR
CIRCUIT BREAKER WITH SERIES OVERLOAD AND
TIME LIMIT, IN OPEN POSITION



SECTIONAL SWITCHBOARD USING AUTOMATIC
DRAW OUT TYPE HD AIR CIRCUIT BREAKERS.
ONE ELECTRICALLY OPERATED UNIT WITH-
DRAWN.



TYPICAL INSTALLATION OF ELECTRICALLY
OPERATED TYPE HD AIR CIRCUIT BREAK-
ERS. BREAKERS CONTROLLED BY AUTO-
MATIC RECLOSING RELAYS.



1500 AMPERE, D.C., SPECIAL 4 POLE TYPE HD AIR CIRCUIT BREAKER FOR PROTECTION
OF A 3 WIRE D. C. GENERATOR; WITH TWO EQUALIZERS.

ROLLER-SMITH Products comprise complete lines of Electrical Instruments, indicating and graphic; Precision Balances; Relays; air and oil Circuit Breakers; Control Panels and Voltage Regulators. Catalogs covering the various devices will be sent on request.



Works of Roller-Smith Company, Bethlehem, Pa.

GUARANTEE

THE ROLLER-SMITH COMPANY guarantees all its apparatus to be made of materials carefully selected as best suited to the respective requirements and flawless so far as inspection and test preliminary to shipment can determine. It will replace or repair, within one year from date of sale, any defective apparatus provided it is returned f. o. b. the Company's Works at Bethlehem, Pa., for that purpose.

ROLLER-SMITH Sales Agencies

BALTIMORE, MD.	Mr. H. R. Houghton 111 N. Calvert St.	OMAHA, NEB.	Geary-Wain Equipment Co. W. O. W. Bldg.
BETHLEHEM, PA.	Roller-Smith Co.	PHILADELPHIA, PA.	Mr. J. Esherick, Otis Bldg.
ATLANTA, GA.	Mr. H. D. Stier 1000 Peachtree St. N. E.	PITTSBURGH, PA.	Henry N. Muller Co. First National Bank Bldg.
BOSTON, MASS.	Arthur H. Abbott, Inc. Winchester Natl. Bank Bldg., Winchester, Mass.	RICHMOND, VA.	Mr. Edwin Wortham P. O. Box 910, 5100 Caledonia Rd.
BUFFALO, N. Y.	Mr. W. S. Gain, Lafayette Bldg.	ST. LOUIS, MO.	Mr. Carl P. Lohr, Paul Brown Bldg.
CHICAGO, ILL.	Mr. E. E. Van Cleef 53 W. Jackson Blvd.	ST. PAUL, MINN.	Savage-Girton Co., Pioneer Bldg.
CLEVELAND, O.	Mr. H. C. Boulton, 1988 E. 66th St.	SALT LAKE CITY, UTAH	The Galigher Co. 228 South West Temple St.
DALLAS, TEXAS	Mr. J. K. Webb, Allen Bldg.	SAN FRANCISCO, CAL.	Electric Material Co. 163 - 2nd St.
DENVER, COLO.	Mr. Mark G. Mueller, 1700 - 16th St.	SEATTLE, WASH.	Mr. J. C. McDougall 2207 - 1st Ave. South
DETROIT, MICH.	Wise & Braisted, Fisher Bldg.	TORONTO, CANADA	Burkholder and Kelley 106 Jarvis St.
LOS ANGELES, CAL.	Elec. Material Co. 912 East Third St.	WASHINGTON, D. C.	Commercial Engineering Co. 1520 K. St., N. W.
NEW ORLEANS, LA.	Electron Engineering Co. Masonic Bldg.		
NEW YORK, N. Y.	Mr. C. G. Kahant, 233 Broadway		



Trans. Voucher

Denver, Colorado, U.S.Mint.

PW-SE-27

James D. Owens,
U.S.Mint, Denver.

Denver, Colorado,
April 14th, 1935.

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D/C.

Sir:

Replying to office letter April 10, 1935 - PW-SE-27-
returning voucher in the amount of \$80.71 for Installation
of Police Alarm Service Connections to the Denver, Colorado
Mint for certification by the writer.

Returned herewith is signed Voucher in the amount
of \$80.71 in favor of Treasurer City and County of Denver
for payment of above mentioned service.

Very truly yours,

James D. Owens

Construction Engineer.

PW-SE-27

James D. Owens,
U.S.Mint, Denver.

Denver, Colorado,
April 14th, 1935.

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D/C.

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James D. Owens

Construction Engineer.

Trans. Voucher

Denver, Colorado, U.S.Mint.

PW-SE-27

James D. Owens,
U.S.Mint, Denver.

Denver, Colorado
April 14th, 1935.

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D/C.

Sir:

Replying to office letter April 10, 1936 - PW-SE-27-
returning voucher in the amount of \$80.71 for Installation
of Police Alarm Service Connections to the Denver, Colorado
Mint for certification by the writer.

Returned herewith is signed Voucher in the amount
of \$80.71 in favor of Treasurer City and County of Denver
for payment of above mentioned service.

Very truly yours,

James D. Owens

Construction Engineer.



TREASURY DEPARTMENT

WASHINGTON

PROCUREMENT DIVISION
PUBLIC WORKS BRANCH

IN REPLYING QUOTE THE ABOVE SUB-
JECT, BUILDING, AND THESE LETTERS

PW- SE-27

April 10, 1936.

Construction Engineer Owens,
U. S. Mint,
Denver, Colorado.

Sir:

The voucher forwarded in your letter of April 2, 1936, in amount \$80.71, for installation of police and fire alarm service connections to the Denver, Colorado, Mint, as authorized in office letter of February 20, 1936, is returned for certification by you.

Please return the voucher to this office with a letter of transmittal and mention the above initials in order to avoid duplication on the books.

When the voucher is received, it will be confirmed in the usual manner.

By direction of the Supervising Engineer;

Very truly yours,

Superintendent of Project Management.

Signal Corps, United States Army

Received at

RADIO STATION W T S

FT. LOGAN, COLO.

c3-9501 U. S. GOVERNMENT PRINTING OFFICE: 1928

9WVB WA 10 TRSY

19

WASHINGTON DC 244P APL 24 1936

CONSTRUCTION ENGINEER OWENS

DENVER MINT DENVER COLO

YOURS TWENTY SECOND PERMIT INSTALLATION LIGHTING FIXTURES SUBJECT
COMPLIANCE SPECIFICATIONS

ROBERT MAYO ACTING SUPT OF MECHANICAL
ENGINEERING

135P

TELEPHONED 151PM WA/

R A D I O G R A M

WASHINGTON, D. C.
APRIL 24, 1936
2:44 P.M.

CONSTRUCTION ENGINEER OWENS
UNITED STATES MINT
DENVER, COLORADO.

YOURS 22ND. PERMIT INSTALLATION LIGHTING FIXTURES SUBJECT
COMPLIANCE SPECIFICATIONS.

ROBERT MAYO

ACTING SUPERINTENDENT
MECHANICAL ENGINEERING.

RECEIVED
APRIL 24, 1936
1:55 P.M.

R A D I O G R A M

April 22, 1936.

Supervising Engineer,
Procurement Division,
Public Works Branch,
Washington, D. C.

Electrical Fixtures for Denver Mint, furnished by
Gill Glass and Fixture Company delivered here Stop.
Has shop inspection been made or will it be waived,
see paragraph twelve hundred seventy nine Stop.

Answer.

James D. Owens
Construction Engineer.

DENVER, COLO., MINT.

PW-3A-ME

April 24, 1936.

Proc. Div., PWB Gen. Expenses 1936.

Construction Engineer Owens,
Denver Mint,
Denver, Colorado.

Yours twenty-second permit installation lighting fixtures
subject compliance specifications.

Acting Superintendent,
Mechanical Engineering Section.

CC: DE
D.C. Representative, Frank E. Kaufman.
Confirmation.

N:HT:JL

DENVER, COLORADO, MINT.



TREASURY DEPARTMENT

WASHINGTON

PROCUREMENT DIVISION
PUBLIC WORKS BRANCH

IN REPLYING QUOTE THE ABOVE SUB-
JECT, BUILDING, AND THESE LETTERS

PW- SA-ME

April 24, 1936.

Construction Engineer Owens,
Denver Mint,
Denver, Colorado.

Sir:

In connection with the Denver Colorado Mint, receipt is acknowledged of your telegram of April 22 stating that lighting fixtures received were made by Gill Glass and Fixture Company.

Office telegram of today directed you to permit their installation subject to compliance with the specification requirements. It is possible that the fixtures were shipped by the Gill Glass and Fixture Company, manufacturers of glassware only, in lieu of separate shipments by the lighting fixture manufacturer approved, Moe-Bridges Company, and the glassware manufacturer.

A copy of this letter will be sent the District Engineer and the contractor's Washington representative.

By direction of the Supervising Engineer.

Very truly yours,

Robert May Jr.
Acting Superintendent,
Mechanical Engineering Section.



OFFICE OF
DISTRICT ENGINEER

SIXTH DISTRICT

DENVER, COLO., MINT.
Changes.

TREASURY DEPARTMENT

PROCUREMENT DIVISION

PUBLIC WORKS BRANCH

FIELD FORCE

Room 526, Post Office,
Kansas City, Missouri.

April 1, 1936.

Construction Engineer,
U. S. Mint,
Denver, Colorado.

Sir:

1. You will have received a copy of Office letter, PW-SE-6-B, dated March 27, addressed to this office in which are quoted excerpts of a report dated January 23, 1936, submitted by Inspection Engineer Mitchell as a result of his visit to the Denver, Colorado, Mint, wherein it was stated that certain of the engineer's recommendations have been either approved or disapproved.

2. In this connection, reference is made to item No. 1, regarding the location of the exterior lights. You are directed to forward here the Superintendent's request and your recommendation as to what elevation it is desired to install the exterior lighting fixtures in question, bearing in mind that the height of 14' 6" as indicated, is architecturally correct.

Very truly yours,

K. L. Hullsick
Acting District Engineer.

KLH-H

Denver, Colorado,
April 7, 1936.

Mr. William N. Collier,
District Engineer,
526 New Post Office Bldg.,
Kansas City, Mo.

Sir:

In compliance with your instructions of April 1st in reference to Item 1 of Office Letter, PW-SE-6-B, dated March 27th, addressed to you concerning the elevation of exterior bracket lights intended for the U.S. Mint, Denver, Colorado:

Attached herewith is a letter from Mr. Mark A. Skinner, Superintendent of the Mint, dated April 7th, waiving any further claim or contention for the lights to be located at an elevation of 7 feet 6 inches above the the first floor level.

Thru round-about instructions the Stone Contractor for the Mint Extension located the conduit holes at an elevation of 14 feet 4 inches above the first floor, in accordance with office plans, and since the stone has been laid and the conduits installed, and have a steel column in the wall at the center point of these lights as laid out, there is little opportunity left for re-locating these outlets in the new extension.

This being the case, Mr. Skinner is now willing to attempt drilling the holes at the 14 feet 4 inch level on the old part of the building to match those located in the new.

Very truly yours,

James D. Owens

Construction Engineer.

Denver, Colorado,
April 7, 1936.

Mr. William N. Collier,
District Engineer,
526 New Post Office Bldg.,
Kansas City, Mo.

Sir:

In compliance with your instructions of April 1st in reference to Item 1 of Office Letter, PW-SE-6-B, dated March 27th, addressed to you concerning the elevation of exterior bracket lights intended for the U.S. Mint, Denver, Colorado:

Attached herewith is a letter from Mr. Mark A. Skinner, Superintendent of the Mint, dated April 7th, waiving any further claim or contention for the lights to be located at an elevation of 7 feet 6 inches above the first floor level.

Thru round-about instructions the Stone Contractor for the Mint Extension located the conduit holes at an elevation of 14 feet 4 inches above the first floor, in accordance with office plans, and since the stone has been laid and the conduits installed, and have a steel column in the wall at the center point of these lights as laid out, there is little opportunity left for re-locating these outlets in the new extension.

This being the case, Mr. Skinner is now willing to attempt drilling the holes at the 14 feet 4 inch level on the old part of the building to match those located in the new.

Very truly yours,

James D. Owens

Construction Engineer.

April 6, 1936.

Mr. James D. Owens
Construction Engineer
in Charge of Operations
Denver, Colorado

Dear Sir:

With reference to the matter of the elevation of exterior lights - inasmuch as the Department in Washington delayed replying to our request for a period of ninety days and until after they had instructed the contractor to have the stone contractor on the new addition drill the holes for conduits at 14' 4" from first floor level, and in view of the fact that these stones have for several weeks been in place, we desire to waive our request that these lights be placed at an elevation of 7' 6" from the first floor.

I note, as stated in one of the letters received from the Department, that another reason why the 14' 4" level was selected, was that the conduit would come into a furred ceiling. This of course is obviously a serious error, as the 14' 4" places the conduit at the spring of the window arch and it must be apparent that the arch of the window does not extend above the ceiling of the first floor.

Respectfully,

Mark A. Skinner
Mark A. Skinner, Superintendent.

CLASS OF SERVICE DESIRED	
DOMESTIC	FOREIGN
TELEGRAM	FULL RATE CABLE
DAY LETTER	DEFERRED CABLE
NIGHT MESSAGE	NIGHT CABLE LETTER
NIGHT LETTER	WEEK-END CABLE LETTER
SHIP RADIOGRAM	RADIOGRAM

Patrons should check class of service desired, otherwise message will be transmitted as a full-rate communication

Postal Telegraph

THE INTERNATIONAL SYSTEM

Commercial
Cables



All America
Cables

Mackay

Radio

RECEIVER'S NUMBER
CHECK
TIME FILED
STANDARD TIME

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Form 2

COPY OF RADIOGRAM

Washington, D. C. 5/10 - 2/28

F. J. Kirchhof Construction Co.
Denver, Colorado

YOUR PROPOSAL FEBRUARY FIFTEENTH SUBMITTED BY CONSTRUCTION ENGINEER
EIGHTEEN DEDUCTION TWO HUNDRED AND TWO DOLLARS OMISSION SWITCHBOARD
BREAKER TWENTY ONE AND TWENTY THREE HEREBY REJECTED BECAUSE WHEN
SPECIFICATION FOR MOTOR GENERATOR IS PREPARED IN NEAR FUTURE CHANGES
NECESSARY FIT SWITCHBOARD TO NEW WORK MAY BE INCLUDED THAT SPECIFICATION
INSTALL WORK AS ORIGINALLY PLANNED

Neil Melick
Treasury Department
Procurement Division

POSTAL TELEGRAPH-CABLE COMPANY

TRANSMITS AND DELIVERS THE WITHIN MESSAGE SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

REPAIRED; that is, telegraphed back to the originating office for comparison. For this, one-half the unreported message rate is charged in addition. Unless otherwise indicated on its face, THIS IS AN UNREPAIRED MESSAGE AND PAID FOR AND THIS Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission or the UN-REPEATED MESSAGE rate, whether caused by the negligence of its servants or otherwise, beyond the sum of FIVE HUNDRED DOLLARS; not for mistakes or delays in the transmission or delivery, or for non-delivery of any message received for transmission at the REPEATED-MESSAGE rate, beyond the sum of FIVE THOUSAND DOLLARS; not for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the SPECIAL VALUED MESSAGE rate, beyond the sum at which such message shall be valued, in writing, by the sender thereof when tendered for transmission and for which payment is made or agreed to be made or the amount of the repeated-message rate as an additional charge based on one per cent of the amount by which the written valuation shall exceed five thousand dollars; not in any case for delays arising from unavoidable interruption in the working of its lines, or for errors in ciphering.

2. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company or by any other means of communication when necessary to reach its destination.

DOMESTIC MESSAGES

FAST TELEGRAMS. A full-rate expedited service.
DAY LETTERS. A deferred day service at rates lower than the fast telegram rate.
One and one-half times the Night Letter rate for the transmission of 50 words or less, and one-fifth of the initial rate for each additional 10 words or less.
SPECIAL TERMS APPLYING TO DAY LETTERS. In further consideration of the

(a) Day Letters may be forwarded by the Telegraph Company as a deferred service to those enumerated above and are hereby agreed to:

due rate for this special "Day Letter" service, the following special terms in addition to those enumerated above are hereby agreed to:

(2) Day Letters may be forwarded by the Telegraph Company as a deferred service and the transmission and delivery of such Day Letters, in all respects, subordinate to the priority of transmission and delivery of full rate telegrams.

(b) This Day Letter is received subject to the express understanding and agreement that the Company does not undertake that a Day Letter shall be delivered on the day of its date absolutely and at all events; but that the Company's obligation in this respect is subject to the condition that there shall remain sufficient time for the transmission and delivery of such Day Letter on the day of its date during regular office hours, subject to the priority of the transmission of full rate telegrams under the transmission and delivery of such Day Letter on the day of its date during regular office hours.

NIGHT MESSAGE, accepted up to 2.00 a.m. at reduced rates to be sent during the night and delivered not earlier than the morning of the ensuing business day. Night messages may also be sent to the Telegram Company for mail or destination to the addressee, and the company will be deemed to have dispatched its obligation in such cases with respect to delivery of mail and N.M. messages at destination. Conditions named above.

of the
and one-fifth of each rate for 10 words shall be charged for each additional 10 words
telegram rate for 10 words shall be charged for the transmission of 50 words or less.
business day, as rates will cover this message rates, as follows: The first
MIGHT BE. Arrived up to 2.00 a. m. for delivery on the morning of the ensuing
postage prepaid.

CLASSES OF SERVICE

3. Domestic messages and incoming cable messages will be delivered free within one-half mile of the Company's office in towns of 5,000 population or less, and within one mile of such office in other cities or towns. Beyond these limits the Company does not undertake to make delivery, but will, without liability, at the sender's request, as his agent and at his expense, endeavor to contract for him for such delivery at a reasonable price.

4. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender. 5. The Company shall not be liable for damages or statutory penalties in any case where the claim is not presented in writing within sixty days after the message is filed with the Company for transmission.

6. It is agreed that prompt and correct transmission and delivery of this message shall be presumed in any action for recovery of tolls therefor; subject, however, to rebuttal by competent evidence.

7. Special terms governing the transmission of messages under the classes of messages enumerated below shall apply to messages in each of such respective classes in addition to all foregoing terms.

8. NO EMPLOYEE OF THIS COMPANY IS AUTHORIZED TO VARY THE FOREGOING.

POSTAL TELEGRAPH-CABLE COMPANY

CLARENCE H. MACKAY, PRESIDENT
A. H. GRISWOLD, EXECUTIVE VICE-PRESIDENT

CABLE MESSAGES

FULL RATE MESSAGES receive regular and prompt service in their order of filing.

DEFERRED RATE MESSAGES at one-half of the full rate to follow full rate messages. Must be in plain language of country of origin, or of destination, or in French. Full particulars as to countries where this class of service is effective will be furnished upon application to any Postal Telegraph office.

NIGHT CABLE LETTERS are reduced rates. Must be in plain language of country of origin, or of destination, or in French where transmission by telegraph to destination is not possible. Must be in plain language of country of origin, or of destination, or in French where transmission by telegraph to destination is not possible. Must be in plain language of country of origin, or of destination, or in French where transmission by telegraph to destination is not possible.

applied. Code addresses may be used except for messages delivered by post. Figures explained by text omitted. Indicators "NLT" required and charged for as one word. For further particulars apply at any Postal Telegraph office. Accepted under conditions WEEK END CABLE LETTERS at exceptionally low rates. Accepted under conditions

applicable to Night Cable Letters, excepting that Week End Cable Letters will be received during the week up to midnight Saturday for telegraphic delivery on the following Monday morning. Indicator "W" required and charged for as one word, for the other particulars apply at any Local Telegraph office.

NO EMPLOYEE OF THIS COMPANY IS AUTHORIZED TO VARY THE FOREGOING.

NIGHT LETTER

February 28 1936

General Expenses

F. J. Kirchhof Construction Company,
Seventh and Lawrence Streets,
Denver, Colorado.

Your proposal February fifteenth submitted by Construction Engineer eighteenth deduction two hundred two dollars omission switchboard breakers twentyone and twentythree hereby rejected because when specification for motor generators is prepared in near future changes necessary fit switchboard to new work may be included that specification STOP Install work as originally planned

Supervising Engineer

CONFIRMATION

*Cancelled
Proposal Rejected.
Unit \$202.00 for
Equalizing Breakers 21 & 23*

CC:CE
CC:DE
CC:SA-ME

WEB:sb

Electrical- changes

Denver, Colo. U.S. Mint Addition

PW-ME.

Denver, Colo.
Feb. 18 th- 1936

Owens,
U.S. Mint, Denver,

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D.C.

Sir:-

Reference to the contract with the F.J. Kirchoff Construction Co. for Remodeling the U.S. Mint, Denver, and constructions contained in your wire of Feb. 5 th- 1936- to obtain a proposal for the omission of Equalizer Breakers Nos. 21-& 23 as provided for on new Switch Board in the Addition.

Herewith is contractors proposal in the amount of \$202. 00 for the omission requested.

The list price of these breakers appears to be about \$575.00 but in figuring credits for their omission, \$202.00 is the best figure I have been able to obtain. Such a figure is inadequate for the value and the amount of work involved.

In view of this very nominal credit, the possible mix up of bussing and equalizing after the Board diagram has been approved and the delay it will cause in fabrication, I recommend rejection of contractors credit proposal and the work to proceed as originally planned and specified.

At the time the omission of these breakers was first raised, it was believed we could affect a possible saving of around \$300.00 to \$325.00 which would be worth considering.

Upon reaching your decision as to what may be done in the matter, kindly notify me or contractor by wire, that fabrication of board will not be held up pending your answer.

Very truly yours.

James D. Owens,

Construction Engineer.

F. J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314

February 15, 1936

Procurement Division
Public Works Branch
Treasury Department
Mr. James D. Owens, C. E.
U. S. Mint,
Denver, Colorado

Dear Sir:

In Re: U. S. Mint, Denver, Colo.

In answer to your recent request, we will allow you the sum of TWO HUNDRED AND TWO DOLLARS(\$202.00) if switch board breakers No. 21 and 23 are omitted.

We are enclosing substantiating quotation received from the Rocky Mountain Electric Company our electrical subcontractor.

Yours very truly,

F. J. KIRCHHOF CONSTRUCTION CO.

By

L. B. Hanson Jr.

GBF*S

F. J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314

February 15, 1936

Copy of letter from Rocky Mountain Electric Company,
453 Broadway, Denver, Colorado

February 11, 1936

F. J. Kirchhof Construction Co.,
700 Lawrence Street
Denver, Colorado

Gentlemen:

In regard to cancelling switchboard break-
ers Numbered 21 and 23. We wish to advise that this
will reflect a credit as follows:

Manufacturers' Cost	\$214.00
Less Handling Charges	<u>12.00</u>
	\$202.00

Yours very truly,

ROCKY MOUNTAIN ELECTRIC CO.

By. W. M. Hopkins, (signed)

WMH*G

NIGHT LETTER

February 3 1936

General Expenses

Construction Engineer Owens
United States Mint
Denver Colorado

Yours January thirtyfirst relative new switchboard Denver Mint equalizer breakers numbers twentyone and twentythree may be omitted provided equalizer legs broken through center pole of breakers numbers twenty and twentytwo STOP Submit contractors proposal this basis and make no change until action taken on proposal

Supervising Engineer.

CONFIRMATION

CC:DE

WEB:sb

Electrical Changes

Denver, Colo. U.S. Mint Addition.

Owens,
U.S. Mint, Denver,

Denver, Colo.

Messer F.J. Kirchhoff Construction Co.,
700 Larence St.
Denver, Colo.

Gentlemen,

In connection with the New Switch Board design as provided under your contract. Provision is made for Two- Four Hundred Amp.- Two Pole Equalizer Breakers (2- 400 -Amp.2-pole) for the balancing up of future D.C. Motor Gen.Sets.

Since a balance of these sets may be maintained by equalizing bus bars, as provided for by the approved Board Diagram, you may submit us a credit proposal for the omission of Equalizer Breakers Nos. 21 and 23 as known on the Rocky Mountain Elec. Co's diagram No.P.B. 3029.

With the omission of Equalizer Breakers Nos. 21 and 23- it must be understood, that, it will be necessary for the equalizer legs to be broken through the center pole of Motor Gen. Breakers No.20 and 22- which are to be furnished.

As no doubt, fabrication of the Board has already started, your early action in the matter will greatly oblige,

Yours very truly,

James D. Owens,

Construction Engineer.

Signal Corps, United States Army

Received at

c2-9501 U. S. GOVERNMENT PRINTING OFFICE: 1929

17WVB B 50TRSY 1EX NITE

19

WASH DC 349P FEBY 3

CONSTRUCTION ENGR OWENS

U S MINT DENVER COLO

YOUR JANUARY THIRTY FIRST RELATIVE NEW SWITCHBOARD DENVER MINT EQUALIZER
BREAKERS NUMBERS TWENTY ONE AND TWENTY THREE MAY BE OMITTED PROVIDED
EQUALIZER LEGS BROKEN THROUGH CENTER POLE OF BREAKERS NUMBERS TWENTY
AND TWENTY TWO STOP SUBMIT CONTRACTORS PROPOSAL THIS BASIS AND MAKE
NO CHANGE UNTIL ACTION TAKEN ON PROPOSAL

NEAL MELICK

248P

PHONED 313 P FEB3 TO H/ BY FH/

RADIOGRAM

WASHINGTON, D. C.
FEBRUARY 3, 1936
3:45 P.M.

CONSTRUCTION ENGINEER OWEN
UNITED STATES MINT
DENVER, COLORADO.

YOURS JANUARY 31ST RELATIVE NEW SWITCH BOARD DENVER MINT.

EQUALIZER BREAKERS NO. 21 AND 23 MAY BE OMITTED PROVIDED EQUALIZER LEGS
BROKEN THROUGH CENTER POLE, *of* HAVE BREAKERS NO. 20 AND 22. SUBMIT
CONTRACTORS PROPOSAL THIS BASIS AND MAKE NO CHANGE UNTIL ACTION TAKEN
ON PROPOSAL.

NEAL A. MELLICK

RECEIVED
FEBRUARY 3, 1936
3:55 P.M.

Sup Eng, Denver, Colo
Procurement Div, Colo 1/31-3 P.M.

Reference to New S. Baard diagram
omit addition, Denver. Stop.

Since we are to have
straight 220-D.C. Service and
diagram provides for equalizing
Bus Bars, ~~provided~~ are
~~tied back through generator~~

Why not take credit for
equalizing Breakers numbers
Twenty one and twenty three.
Stop

By wire
advise if you have ~~possible~~
future use for Breakers ~~and~~
fabrication ~~can~~ be held up
pending credit arrangements.

J.S.O.

Night L.
collect.

Procurement Division



DENVER, COLO. MINT
E.C.P.

TREASURY DEPARTMENT

WASHINGTON

PROCUREMENT DIVISION
PUBLIC WORKS BRANCH

February 20, 1936.

IN REPLYING QUOTE THE ABOVE SUB-
JECT, BUILDING, AND THESE LETTERS PW-SE-27

Construction Engineer Owens,
Mint,
Denver, Colorado.

Sir:

Receipt is acknowledged of your letter dated February 1, 1936, forwarding a letter from the City of Denver, dated January 10, requesting installation of police and fire alarm service connections to the Mint, Denver, Colorado.

You are hereby authorized to have the City provide police service from the Telephone Company's manhole through a signal service duct into the building and up to call box on the first floor, for which they give an estimate of Eighty Dollars and seventy-one cents (\$80.71). The cost is to be charged to the appropriation, "2X872 Emergency Construction of Public Buildings, Act June 19, 1934."

Forward voucher with bill or bills rendered on completion of the work.

By direction of the Secretary.

Very truly yours,

W. E. Keen
Assistant Director of Procurement.



2072, 514, 100
 1/26
 TREASURY DEPARTMENT
 WASHINGTON

February 26, 1936.

RECEIVED
 FEB 27 1936
 TELETYPE UNIT

Commissioner Richard Green,
 1444
 Denver, Colorado

Sir:

Receipt is acknowledged of your letter dated February 1, 1936, forwarding a letter from the City of Denver, dated January 10, requesting installation of police and fire alarm service connections to the 1444, Denver, Colorado.

You are hereby authorized to have the City provide police service from the Telephone Company's mainline through a signal service duct into the building and up to call box on the first floor, for which they give an estimate of Eighty Dollars and seventy-one cents (\$80.71). The cost is to be charged to the appropriation, "21872 Emergency Construction of Public Buildings, Act June 19, 1934."

Forward voucher with bill or bills rendered on completion of the work.

By direction of the Secretary.

Very truly yours,

W. E. Rogers
 Assistant Director of Procurement.

PW-ME.

Owens,
U.S. Mint, Denve,

Denver, Colo.
Feb. 1st. 1936

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D.C.

Sir:-

Reference to the contract with the F.J.
Kirchoff Const. Co. for the Remodeling & Extending the
U.S. Mint, Denver, Colo.

There arises a question as to who shall
furnish and install new cable for the Police Alarm
connections from man-hole in Cherokee street into the
Mint building.

The contract under paragraphs 1208 and 1216
provides for certain signal and vault protection work but
states the extention of such work will be made under an-
other contract. From this language it would not appear
contractor was obligated to provide new cable for the
police call service.

Paragraph 1221 provides for relocation of
all light, Power, Tele., Fire Alarm and Signal service.
This work the contractor has performed and will to do, but
he is unwilling to supply new cable for police call service
through the Telephone Co's under ground ducts from man-
hole to box in the building.

The City And Co. of Denver, Police Dept. are
unable, without re-imbursement, to install new cable as
described. Herewith is copy of their estimated cost of the
work.

Further information is requested as to
whether this cable should now be installed in the Tele.
Co's ducts to the building or left in a temporary loca-
tion to be picked up under another contract.

Custodian is anxious to get concealed
under ground.

Very truly yours ,

James D. Owens,

Construction Engineer.

DENVER, COLO., MINT
E.C.P.



TREASURY DEPARTMENT

WASHINGTON

PROCUREMENT DIVISION
PUBLIC WORKS BRANCH

April 27, 1936.

IN REPLYING QUOTE THE ABOVE SUB-
JECT, BUILDING, AND THESE LETTERS

PW- SE-27

Construction Engineer Owens,
U. S. Mint,
Denver, Colo.

Sir:

The receipt is acknowledged of your letter of April 14, 1936, forwarding voucher in amount eighty dollars and seventy-one cents (\$80.71), for installation of police alarm service connections to the Mint, Denver, Colo.

You were authorized on February 20, 1936 to have the city provide this service, for which an estimate had been quoted of \$80.71; the cost to be covered by a voucher charged to the appropriation "2X872 Emergency Construction of Public Buildings, Act June 19, 1934". This work has been completed and the voucher, in the same amount as the original estimate, is therefore approved for payment from the appropriation quoted above.

A copy of this letter is being forwarded to the District Engineer for his information.

By direction of the Secretary.

Very truly yours,

W. E. DeLoach
Assistant Director of Procurement.

Payee's Acct. No

Date _____

Activity

No. _____ Date _____ Rec. No. _____
 Denver, Colorado, U.S. Mint Addition

For

... 1935 and installing the
Police Call Cable from New
on Delaware Street thru
Telephone Company's duct se
Pull Box in the U.S. Mint
building, in accordance with
Department letter, 1935

MEMORANDUM

Feb 20 -

(This certificate not required when a like certificate is made by payee on attached bill or bills)

I certify that the above bill is correct and just, and that payment therefor has NOT been received.

TOTAL,

\$80.71

(Per ..

Title

* Payco

(Additional statements by Department, Bureau,
or Establishment, if deemed necessary)

(Accounting Classification)

(Payee must NOT use this space)

Differences:

Account verified; correct for.....\$

(Signature or initials)

I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or the services performed as stated; that they were procured under the contract numbered above or the unnumbered contract attached hereto, or that they were procured without written contract, in open market, and with or without advertising, under the circumstances stated in No. _____ of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

†Approved for \$-----

(Memorandum—Do not sign)

†.

Title

Paid by { Check No. _____, dated _____, for \$ _____ } on Treasurer of the United States
Cash, \$ _____, on _____ } in favor of payee named above.
* Payee _____

(Memorandum—Do not sign)

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

Per

Title

METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.
2. (a) After advertising by circular letters sent to _____ dealers.
(b) And by notices posted in public places.
(If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2 (a) (b)" or "2 (a)," depending on whether or not notices were posted.)
3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with _____
5. Without advertising, it being impracticable to secure competition because of _____

(Here state circumstances under which the securing of competition was impracticable)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal and acceptance, or less formal agreement) Standard Form No. 1036 (Revised) should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, August 20, 1930.)

MEMORANDUM

(Type or initials) Account verified correct for		(Additional statements by Department, Bureau, or Establishment if deemed necessary)	
(Specify extent NOT use this space)		(Accounting Classification)	
TOTAL		(This certificate not required when a bill certificate is made by power on extended bill or bill)	

I certify that the above bill is correct and just, and that payment thereon has NOT been received.

(Type or initials)

(Signature or initials)

(Date)

(Approved for \$ _____)

(Check No. _____)

(Paid by _____)

(Date _____)

Public Voucher for Purchases, and Services other than Personal

D. O. Vou. No. _____

No. _____

(Voucher prepared _____)

(Give place and date)

PAID BY _____

U. S. _____ Procurement Division, Public Works Branch,

2X-872 Emergency Construction of Buildings,

Appropriation: _____

Act June 19th, 1934

THE UNITED STATES, Dr., To _____

TREASURER, City & County of Denver,

(Mail check to _____)

(For use of Paying Office)

Municipal Building, Denver, Colorado (Payee) (Geo. W. Marland, Chief Police Dept.

Address _____

Denver, Colorado. Payee's Acct. No. _____

Dept. Letter _____

Payee must NOT
use this space

Contract No. _____

Date _____

Req. No. _____

Date _____

Activity _____

Denver, Colorado, U.S. Mint Addition _____

For _____

Expendi- ture Symbol	No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, Item Number of Contract or General Supply Schedule, and other information deemed necessary) Terms% Discount Cash days	QUAN- TITY	UNIT PRICE		AMOUNT		NOTATIONS Payee must NOT use this column
					Cost	Per	Dollars	Cts.	
		3/31/36	For furnishing all material and labor and installing new Police Call Cable from hole in Delaware Street thru Telephone Company's duct service to Pull Box in the U.S. Mint Building, in accordance with Department Letter, 1935, in the amount of				\$80.71		

(This certificate not required when a like certificate is made by payee on attached bill or bills)

I certify that the above bill is correct and just, and
that payment therefor has NOT been received.

TOTAL,

\$80.71

Per _____

Title _____

* Payee _____

(Additional statements by Department, Bureau,
or Establishment, if deemed necessary)

(Accounting Classification)

(Payee must NOT use this space)

Differences: _____

Account verified; correct for \$ _____

(Signature or initials) _____

I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or the services performed as stated; that they were procured under the contract numbered above or the unnumbered contract attached hereto, or that they were procured without written contract, in open market, and with or without advertising, under the circumstances stated in No. _____ of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

† Approved for \$ _____

(Memorandum—Do not sign)

† _____

Title _____

Paid by { Check No. _____, dated _____, for \$ _____ { on Treasurer of the United States
Cash, \$ _____, on _____ { in favor of payee named above.

* Payee _____

(Memorandum—Do not sign)

Per _____

Title _____

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for \$ _____," and over his official title.

METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.

2. (a) After advertising by circular letters sent to _____ dealers.

(b) And by notices posted in public places.

(If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2 (a) (b)" or "2 (a)," depending on whether or not notices were posted.)

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.

4. Without advertising in accordance with _____

5. Without advertising, it being impracticable to secure competition because of _____

(Here state circumstances under which the securing of competition was impracticable)

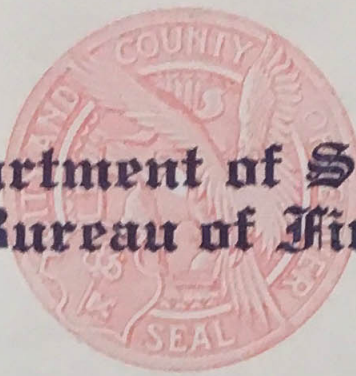
NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal and acceptance, or less formal agreement) Standard Form No. 1036 (Revised) should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, August 20, 1930.)

10-1751

MEMORANDUM

JOHN F. HEALY
CHIEF
MAIN 1133, EXTENSION 361

FRANK J. SPILLANE
DEPUTY
MAIN 1172



Department of Safety Bureau of Fire

WM. E. GUTHNER
MANAGER
SAFETY AND EXCISE
MAIN 1133
EXTENSION 337

HEADQUARTERS FIRE DEPARTMENT
194 CITY AND COUNTY BUILDING
DENVER, COLORADO

COPY
March 14, 1936.

January
Tenth
1936.

Mr. Mark A. Skinner,
Superintendent, U. S. Mint,
Denver, Colorado.

Dear Sir:

Recent new construction on the United States Mint addition has necessitated changes in the present aerial police connections to your building.

The Telephone Company have provided under-ground duct service into your building in which we propose to install city wires for your service at an estimated cost to the Denver City and County Police Department as follows:

Lead encased cable	\$45.71	
Labor	<u>35.00</u>	
Total estimated cost		\$80.71

Very truly yours,

ELL-b

E. L. LAYNE
Superintendent, Fire Alarm
210 Police Building.

DEPARTMENT OF SAFETY AND EXCISE
ROOM 101, POLICE BLDG., 14TH & LARIMER STS.

WM. E. GUTHNER
MANAGER AND
EX-OFFICIO
SHERIFF

WM. T. EDDY
SECRETARY

GEO. W. MARLAND
CHIEF POLICE DEPARTMENT

JOHN F. HEALY
CHIEF FIRE DEPARTMENT



CITY AND COUNTY OF DENVER

DENVER



COLORADO

March
Fourteenth
1936.

Mr. J. D. Owens,
Construction Engineer,
U. S. Mint, Denver, Colorado.

Dear Sir:

Please find enclosed as per request letter to Mr.
Skinner, under date of January 10th, 1936.

Yours very truly

E. L. LAYNE
Supt. Fire Alarm.

Power Service to New Addition

New Pot head Cabinet 40×48 .
With Slot in Top for feeders to
5" conduit -

Power Company coming in With
4-circuits, each - 250 M.C.M.
Lead Covered to Pot head -

Load Will 400 K.W.

Voltage 120/208 - Light & Power Requiring
Feeders from Pot head to Board
3 - " = 2 - 500 M.C.M. each and No.
4 0000 Neutral, all with lugs each end.

PUBLIC SERVICE COMPANY OF COLORADO

Denver, Colorado, October 17, 1934.

Mr. M. H. White
Supt. of Machinery
United States Mint
Denver, Colorado.

Dear Sir:

In accordance with your request, we are enclosing, herewith, a blue print showing the plan of bringing a four-wire service to the Mint Building. This blue print also shows the dimensions for a motor generator room in case you decide to supply your D. C. requirements in this manner.

The present overhead system now serving the building would be replaced by a new four-wire, three phase, 120/208 volt, light and power service from the network system. The blue print shows the approximate location of the underground duct carrying this new service.

If the Government should decide at this time to purchase motor generators and buy only A.C. service, The Public Service Company will pay One Thousand Dollars (\$1000.00) in cash toward the purchase of the motor generators and in addition will, at no expense to the Government, install ~~this new underground service~~ the new four-wire underground service. The cost of extending this new underground service amounts to \$1,848.00 covering cable, duct line, and cable terminal box.

The Government would be required to extend the necessary wiring from the cable terminal box to the terminal switch board, motor generator sets and other equipment in the building. It would also be necessary for the Government to install a 208/2300 volt transformer to take care of the present 2300 volt regulator on the second floor.

A space of 24" x 72" should be provided on the main switch board to carry the company meters and current coils.

We will be pleased to supply any further detail which you may require.

Very truly yours,

Signed- PUBLIC SERVICE COMPANY OF COLORADO
G. W. Thomas Mgr.,
Power Sales Division.

GWT/m
Enc.

Copy for: Construction Engineer, Owens
Denver, Colorado Mint.

Treasury Department.

OFFICE SUPERVISING ARCHITECT,
December 30, 1935.

SA-ME

*Referred to the**for his guidance and files*

Superintendent of the Mint,

Denver, Colorado.

Sir:

There are enclosed prints of drawings #LPR-1-465 to #LPR-1-470, inclusive, with request that you check same for locations of outlets, equipment, and services, which are to be installed in the near future by your Bureau, in the Denver Colorado Mint.

Please return the prints to this Division, marked for the attention of the Mechanical Engineering Section, as soon as possible, with any corrections desired shown thereon.

Copies of this letter will be sent the District Engineer and the Construction Engineer.

By direction of the Supervising Engineer, to whom any further correspondence on this subject should be addressed.

Respectfully,

Superintendent
Mechanical Engineering Section.

